

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: P672325

Luminaire Tested: **CCP-SA-1F-840-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672325  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1F-840-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ T3R distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

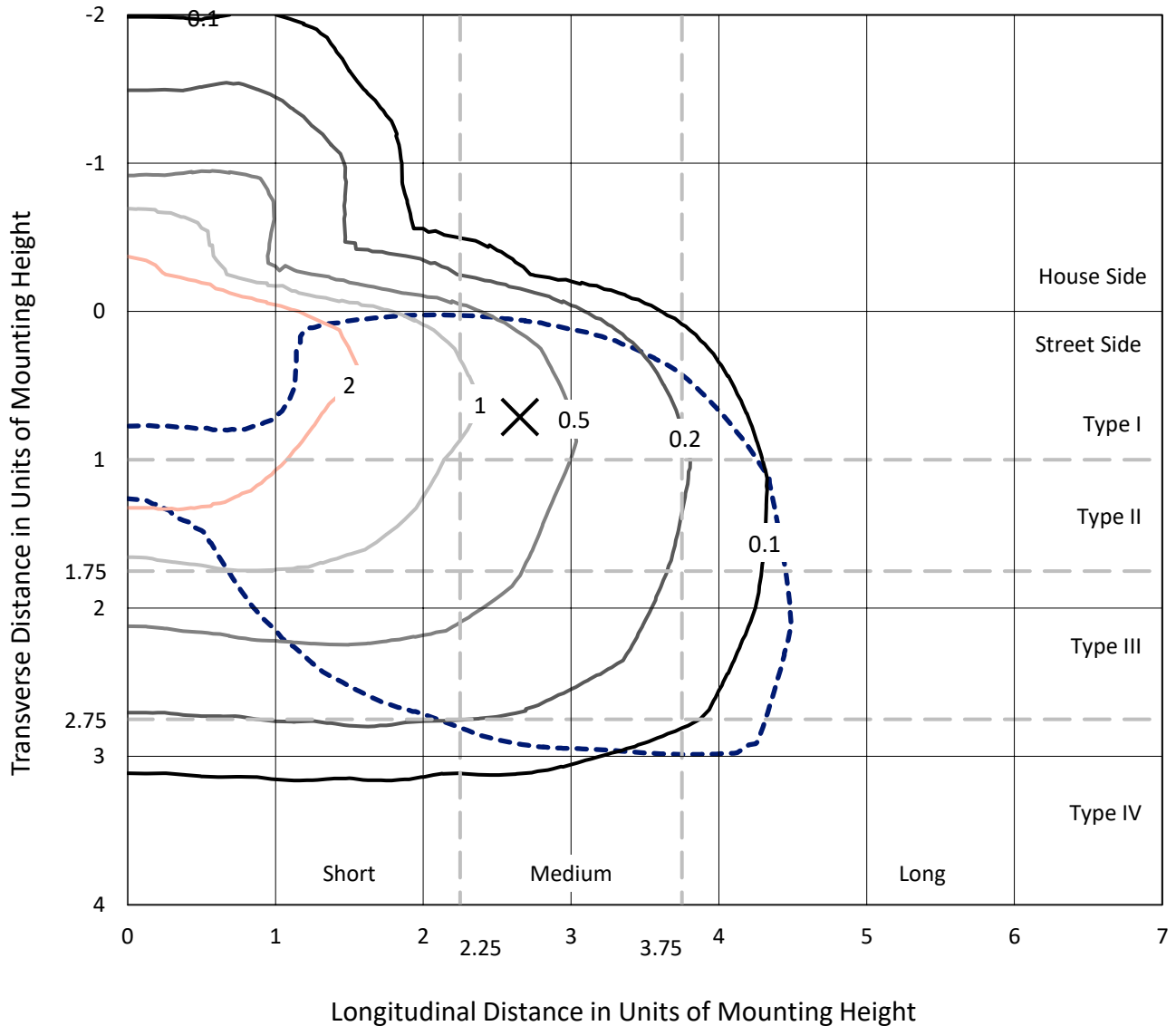
Lumens per Lamp: N/A  
Luminaire Lumens: 6497.2 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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: P672325  
 CATALOG NUMBER: CCP-SA-1F-840-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

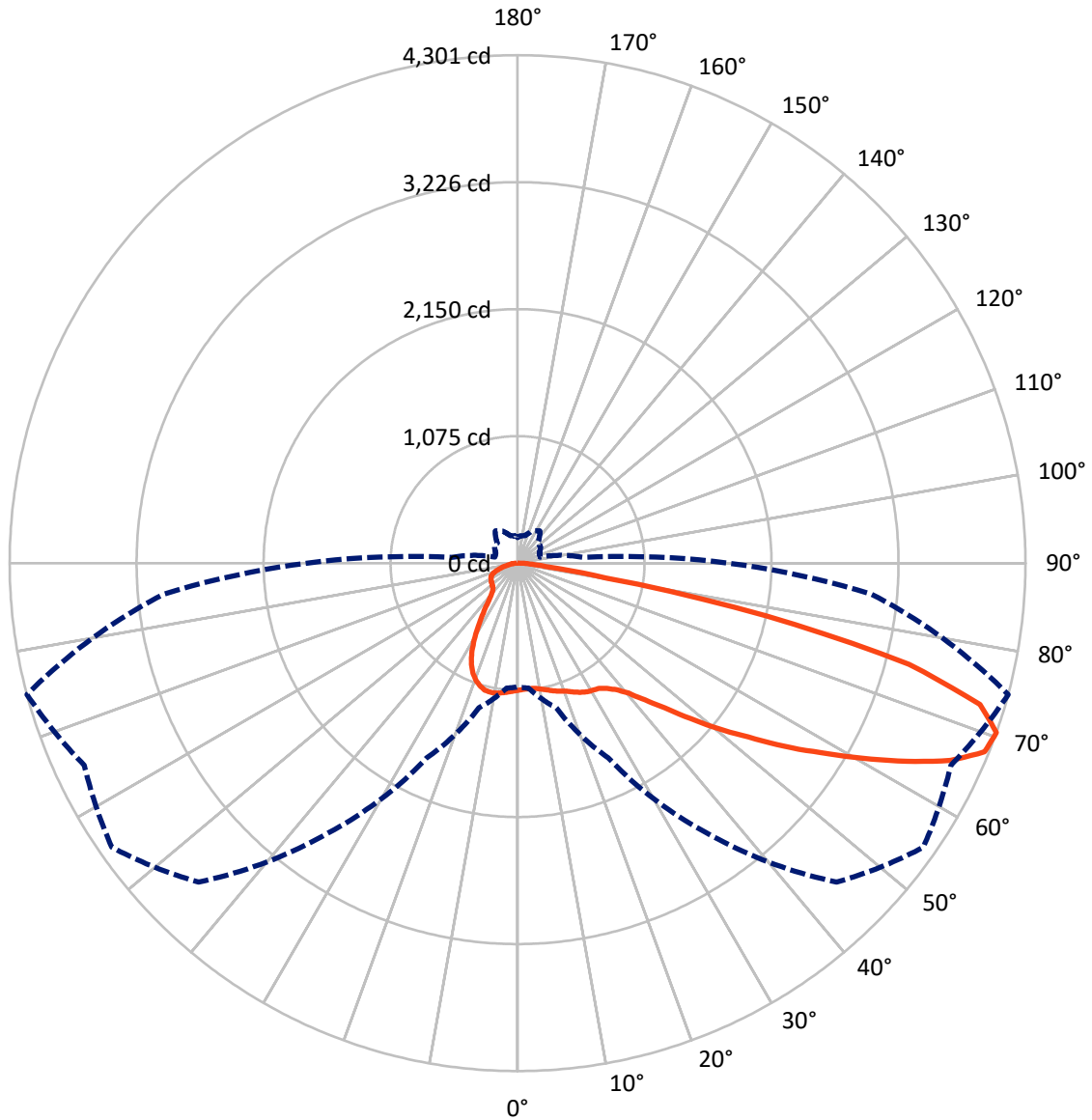
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P672325  
CATALOG NUMBER: CCP-SA-1F-840-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P672325

CATALOG NUMBER: CCP-SA-1F-840-U-T3R

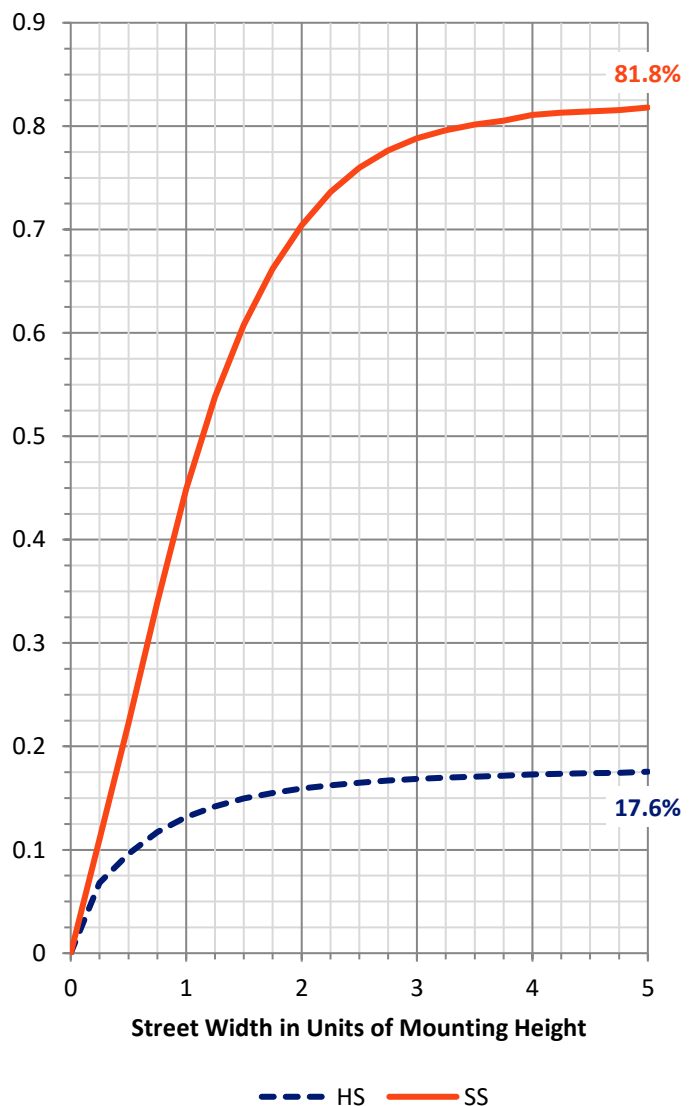
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1155.9   | 0.0    | 1155.9 |
|                    | % Fixture | 17.8     | 0.0    | 17.8   |
| <b>Street Side</b> | Lumens    | 5341.3   | 0.0    | 5341.3 |
|                    | % Fixture | 82.2     | 0.0    | 82.2   |
| <b>Total</b>       | Lumens    | 6497.2   | 0.0    | 6497.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.7   | 1.5       |
| 10°-20°   | 258.0  | 4.0       |
| 20°-30°   | 434.7  | 6.7       |
| 30°-40°   | 660.3  | 10.2      |
| 40°-50°   | 945.9  | 14.6      |
| 50°-60°   | 1254.1 | 19.3      |
| 60°-70°   | 1569.4 | 24.2      |
| 70°-80°   | 1146.0 | 17.6      |
| 80°-90°   | 132.2  | 2.0       |
| 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°    | 6497.2 | 100.0     |
| 0°-180°   | 6497.2 | 100.0     |



REPORT NUMBER: P672325

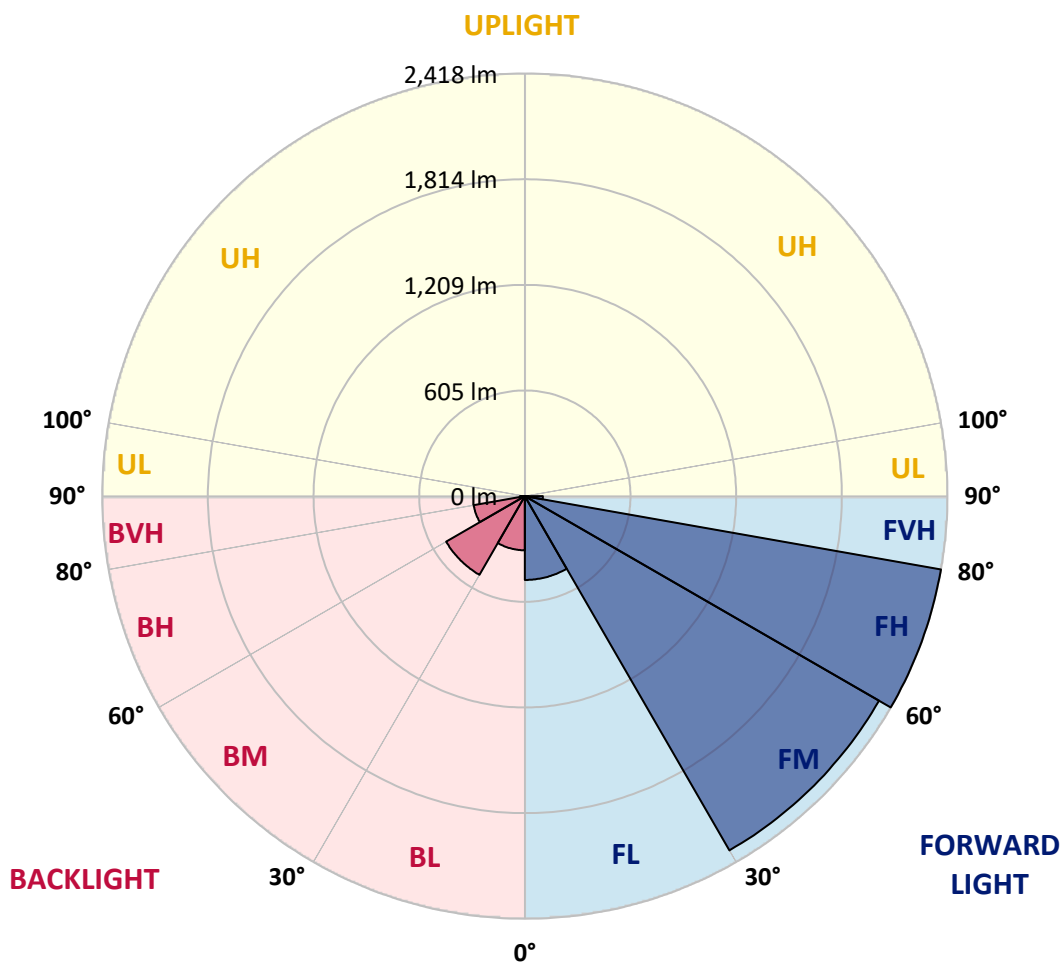
CATALOG NUMBER: CCP-SA-1F-840-U-T3R

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 479.5  | 7.4       |                         |      |         |
| FM (30°-60°)   | 2340.5 | 36.0      |                         |      |         |
| FH (60°-80°)   | 2418.1 | 37.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 103.1  | 1.6       |                         |      | G2/225  |
| BL (0°-30°)    | 309.8  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 519.7  | 8.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 297.3  | 4.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 29.0   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Medium





REPORT NUMBER: P672325

CATALOG NUMBER: CCP-SA-1F-840-U-T3R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 74°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1076.2 | 1076.2 | 1076.2 | 1076.2 | 1076.2 | 1076.2 | 1076.2 | 1076.2 | 1076.2 | 1076.2 | 1076.2 |
| 2.5°  | 1017.3 | 1022.9 | 1028.1 | 1033.2 | 1037.4 | 1048.6 | 1051.0 | 1063.1 | 1066.4 | 1069.2 | 1073.0 |
| 5°    | 960.3  | 964.5  | 969.6  | 978.0  | 986.9  | 1007.0 | 1021.1 | 1047.7 | 1062.7 | 1067.3 | 1080.4 |
| 7.5°  | 929.4  | 930.8  | 937.8  | 944.9  | 955.1  | 974.8  | 993.9  | 1035.6 | 1065.5 | 1070.6 | 1098.7 |
| 10°   | 907.0  | 908.9  | 915.4  | 925.2  | 935.5  | 953.7  | 977.6  | 1027.1 | 1075.8 | 1083.7 | 1123.4 |
| 12.5° | 899.0  | 898.1  | 905.6  | 912.1  | 926.6  | 949.5  | 974.3  | 1027.6 | 1089.8 | 1101.0 | 1159.4 |
| 15°   | 930.8  | 924.8  | 929.4  | 927.1  | 931.8  | 954.2  | 983.7  | 1037.9 | 1107.1 | 1121.1 | 1196.8 |
| 17.5° | 1001.0 | 995.8  | 992.5  | 972.4  | 959.3  | 972.0  | 1000.0 | 1052.4 | 1125.3 | 1140.3 | 1230.5 |
| 20°   | 1105.7 | 1091.2 | 1079.0 | 1045.4 | 1008.9 | 1004.7 | 1024.3 | 1066.9 | 1142.6 | 1157.1 | 1266.0 |
| 22.5° | 1224.9 | 1213.2 | 1193.6 | 1134.7 | 1078.1 | 1050.0 | 1055.2 | 1093.5 | 1167.9 | 1183.8 | 1306.7 |
| 25°   | 1375.4 | 1375.0 | 1334.8 | 1255.3 | 1169.7 | 1113.2 | 1102.4 | 1136.1 | 1196.4 | 1211.8 | 1340.4 |
| 27.5° | 1547.0 | 1535.3 | 1487.6 | 1385.3 | 1277.7 | 1191.2 | 1166.0 | 1179.6 | 1219.3 | 1235.2 | 1367.5 |
| 30°   | 1693.8 | 1695.2 | 1646.6 | 1534.9 | 1392.7 | 1267.4 | 1219.8 | 1210.9 | 1234.3 | 1250.1 | 1392.7 |
| 32.5° | 1850.9 | 1843.0 | 1798.5 | 1683.5 | 1517.1 | 1349.3 | 1254.4 | 1233.3 | 1249.7 | 1264.6 | 1427.8 |
| 35°   | 1998.6 | 1989.8 | 1951.4 | 1827.5 | 1654.1 | 1439.5 | 1301.1 | 1268.4 | 1286.1 | 1302.5 | 1470.8 |
| 37.5° | 2139.4 | 2140.8 | 2097.3 | 1979.0 | 1786.9 | 1546.1 | 1370.3 | 1321.2 | 1340.4 | 1358.6 | 1536.3 |
| 40°   | 2262.3 | 2255.3 | 2221.7 | 2115.1 | 1924.8 | 1654.6 | 1448.4 | 1393.2 | 1430.6 | 1447.4 | 1619.0 |
| 42.5° | 2301.6 | 2301.1 | 2314.2 | 2248.8 | 2069.7 | 1783.6 | 1545.6 | 1505.4 | 1558.2 | 1583.5 | 1720.5 |
| 45°   | 2267.5 | 2277.8 | 2353.5 | 2351.6 | 2214.6 | 1931.8 | 1678.4 | 1641.9 | 1718.1 | 1746.7 | 1844.4 |
| 47.5° | 2233.8 | 2249.2 | 2352.1 | 2410.5 | 2344.6 | 2095.0 | 1841.6 | 1814.4 | 1923.8 | 1965.0 | 1972.9 |
| 50°   | 2184.7 | 2199.2 | 2321.7 | 2418.9 | 2424.1 | 2260.0 | 2052.9 | 2018.7 | 2159.5 | 2201.5 | 2112.7 |
| 52.5° | 2130.0 | 2141.2 | 2267.9 | 2412.9 | 2462.0 | 2389.0 | 2260.0 | 2250.2 | 2411.9 | 2446.1 | 2254.8 |
| 55°   | 1828.0 | 1875.7 | 2188.9 | 2399.8 | 2488.1 | 2487.7 | 2461.5 | 2493.7 | 2687.3 | 2738.3 | 2413.3 |
| 57.5° | 1654.6 | 1679.8 | 1966.4 | 2392.3 | 2537.2 | 2578.8 | 2669.5 | 2738.7 | 2981.4 | 3027.2 | 2588.2 |
| 60°   | 1598.0 | 1620.4 | 1854.6 | 2383.4 | 2634.9 | 2721.4 | 2872.9 | 2985.1 | 3297.4 | 3353.5 | 2783.6 |
| 62.5° | 1546.6 | 1573.7 | 1809.3 | 2312.8 | 2753.2 | 2947.2 | 3115.5 | 3251.6 | 3630.8 | 3697.1 | 2978.1 |
| 65°   | 1441.8 | 1461.0 | 1726.1 | 2253.4 | 2865.4 | 3269.4 | 3465.7 | 3545.2 | 3953.8 | 4028.6 | 3107.1 |
| 67.5° | 1260.9 | 1279.1 | 1538.6 | 2116.9 | 2938.4 | 3604.6 | 3848.6 | 3849.1 | 4203.5 | 4264.7 | 3134.2 |
| 70°   | 1048.2 | 1062.2 | 1268.4 | 1819.6 | 2786.4 | 3819.6 | 4194.1 | 4047.8 | 4274.1 | 4300.7 | 3005.2 |
| 72.5° | 749.4  | 761.6  | 929.0  | 1345.1 | 2284.8 | 3645.2 | 4272.7 | 4039.4 | 4102.9 | 4094.5 | 2638.2 |
| 75°   | 461.9  | 485.3  | 569.0  | 821.0  | 1419.9 | 2868.2 | 3845.3 | 3660.2 | 3445.1 | 3421.8 | 1986.5 |
| 77.5° | 301.1  | 313.2  | 384.8  | 484.3  | 626.5  | 1646.6 | 2920.6 | 2744.3 | 2175.4 | 2148.3 | 1067.8 |
| 80°   | 180.9  | 201.0  | 252.0  | 304.4  | 283.8  | 629.7  | 1667.6 | 1363.3 | 768.6  | 760.2  | 328.2  |
| 82.5° | 97.2   | 115.5  | 177.7  | 188.4  | 159.4  | 222.5  | 604.0  | 443.2  | 245.9  | 243.1  | 123.0  |
| 85°   | 77.1   | 86.0   | 127.6  | 119.2  | 90.2   | 112.7  | 235.6  | 184.7  | 126.2  | 123.4  | 46.3   |
| 87.5° | 46.8   | 58.9   | 96.8   | 80.4   | 44.9   | 40.7   | 108.0  | 87.4   | 59.4   | 55.2   | 18.2   |
| 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: P672325  
 CATALOG NUMBER: CCP-SA-1F-840-U-T3R

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1076.2 | 1076.2 | 1076.2 | 1076.2 | 1076.2 | 1076.2 | 1076.2 | 1076.2 | 1076.2 | 1076.2 | 1076.2 |
| 2.5°  | 1080.0 | 1082.3 | 1084.6 | 1080.0 | 1081.8 | 1079.5 | 1079.5 | 1079.5 | 1073.4 | 1071.6 | 1077.2 |
| 5°    | 1090.3 | 1093.5 | 1095.4 | 1080.9 | 1072.0 | 1058.9 | 1048.2 | 1031.8 | 1022.5 | 1016.4 | 1016.4 |
| 7.5°  | 1111.3 | 1115.0 | 1106.6 | 1074.4 | 1043.0 | 1008.0 | 972.0  | 942.1  | 920.5  | 911.2  | 914.0  |
| 10°   | 1142.1 | 1143.6 | 1115.5 | 1056.1 | 989.3  | 924.3  | 873.3  | 833.6  | 806.9  | 793.4  | 791.5  |
| 12.5° | 1178.1 | 1172.1 | 1117.4 | 1015.9 | 916.8  | 829.4  | 767.2  | 715.8  | 681.6  | 668.6  | 662.0  |
| 15°   | 1213.7 | 1199.2 | 1110.4 | 967.8  | 834.5  | 729.3  | 649.9  | 601.2  | 580.2  | 574.1  | 571.8  |
| 17.5° | 1245.5 | 1218.4 | 1087.0 | 898.6  | 739.1  | 612.5  | 554.0  | 536.7  | 539.0  | 544.7  | 547.0  |
| 20°   | 1274.5 | 1232.8 | 1053.3 | 816.3  | 619.9  | 521.3  | 506.8  | 522.7  | 535.8  | 544.2  | 545.6  |
| 22.5° | 1306.2 | 1246.9 | 1006.6 | 716.2  | 522.2  | 479.2  | 496.5  | 514.7  | 527.8  | 536.2  | 537.6  |
| 25°   | 1330.6 | 1246.4 | 940.6  | 597.5  | 460.5  | 468.0  | 488.6  | 504.9  | 514.7  | 520.8  | 520.3  |
| 27.5° | 1346.0 | 1235.2 | 854.2  | 499.8  | 436.2  | 460.0  | 479.7  | 490.4  | 496.0  | 500.7  | 500.2  |
| 30°   | 1350.7 | 1213.7 | 745.2  | 427.8  | 425.0  | 452.6  | 467.5  | 474.1  | 478.3  | 482.9  | 482.9  |
| 32.5° | 1360.0 | 1180.5 | 625.1  | 387.6  | 416.6  | 445.1  | 454.0  | 459.1  | 455.8  | 444.1  | 441.8  |
| 35°   | 1370.3 | 1143.6 | 511.5  | 368.9  | 408.6  | 439.9  | 448.4  | 434.8  | 399.3  | 394.6  | 392.7  |
| 37.5° | 1390.4 | 1109.4 | 415.2  | 355.8  | 406.7  | 442.7  | 449.8  | 395.5  | 365.6  | 351.1  | 348.8  |
| 40°   | 1424.5 | 1075.3 | 350.6  | 346.4  | 409.1  | 454.9  | 431.1  | 376.8  | 327.3  | 299.7  | 295.0  |
| 42.5° | 1469.4 | 1033.7 | 314.2  | 341.8  | 415.6  | 474.5  | 424.5  | 350.2  | 295.9  | 277.2  | 274.4  |
| 45°   | 1521.3 | 978.5  | 296.9  | 340.8  | 423.6  | 484.3  | 426.4  | 328.7  | 281.9  | 267.4  | 266.5  |
| 47.5° | 1575.1 | 924.3  | 289.4  | 339.9  | 433.4  | 480.1  | 400.7  | 322.1  | 276.3  | 272.1  | 274.9  |
| 50°   | 1633.0 | 862.6  | 283.3  | 337.5  | 441.3  | 480.1  | 386.6  | 320.7  | 278.2  | 287.5  | 296.9  |
| 52.5° | 1687.3 | 810.7  | 276.3  | 330.5  | 444.6  | 471.7  | 382.4  | 325.9  | 281.0  | 278.6  | 281.4  |
| 55°   | 1753.2 | 784.0  | 272.6  | 320.7  | 438.5  | 446.0  | 377.3  | 339.9  | 283.3  | 264.1  | 264.1  |
| 57.5° | 1828.5 | 778.4  | 267.0  | 307.6  | 418.9  | 410.5  | 376.8  | 348.3  | 277.2  | 259.5  | 256.2  |
| 60°   | 1919.2 | 790.6  | 259.9  | 291.3  | 395.1  | 382.9  | 373.5  | 348.3  | 267.4  | 251.5  | 252.9  |
| 62.5° | 1992.6 | 789.2  | 255.7  | 276.8  | 363.3  | 354.4  | 367.5  | 343.6  | 263.7  | 250.6  | 250.1  |
| 65°   | 2009.9 | 759.3  | 243.6  | 258.1  | 324.0  | 319.8  | 360.9  | 331.9  | 258.5  | 245.4  | 241.7  |
| 67.5° | 1951.4 | 691.5  | 225.3  | 233.3  | 282.4  | 282.8  | 349.2  | 316.5  | 251.5  | 242.6  | 236.6  |
| 70°   | 1785.5 | 559.2  | 198.2  | 203.4  | 237.5  | 243.6  | 331.9  | 298.3  | 239.8  | 230.5  | 216.0  |
| 72.5° | 1494.2 | 402.1  | 166.9  | 168.3  | 188.9  | 204.8  | 302.0  | 273.5  | 222.5  | 200.6  | 185.1  |
| 75°   | 1106.2 | 267.0  | 136.0  | 134.2  | 141.7  | 166.4  | 258.1  | 245.9  | 200.1  | 166.4  | 158.5  |
| 77.5° | 584.9  | 158.0  | 104.7  | 105.2  | 100.5  | 127.6  | 204.8  | 213.7  | 177.7  | 140.3  | 132.3  |
| 80°   | 200.1  | 94.9   | 75.3   | 78.5   | 71.1   | 91.2   | 151.9  | 177.7  | 151.9  | 116.9  | 103.3  |
| 82.5° | 91.6   | 58.0   | 53.8   | 56.1   | 51.0   | 61.7   | 104.3  | 134.6  | 121.1  | 85.1   | 68.7   |
| 85°   | 46.3   | 34.6   | 34.6   | 37.9   | 33.7   | 31.8   | 57.5   | 89.3   | 88.8   | 58.4   | 50.5   |
| 87.5° | 19.2   | 16.8   | 15.9   | 18.2   | 15.9   | 12.2   | 16.4   | 32.3   | 46.8   | 35.1   | 22.4   |
| 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)