

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: P673466

Luminaire Tested: **CCP-SA-1F-835-U-T4FT-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673466
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-835-U-T4FT-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1200mA w/ T4FT distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

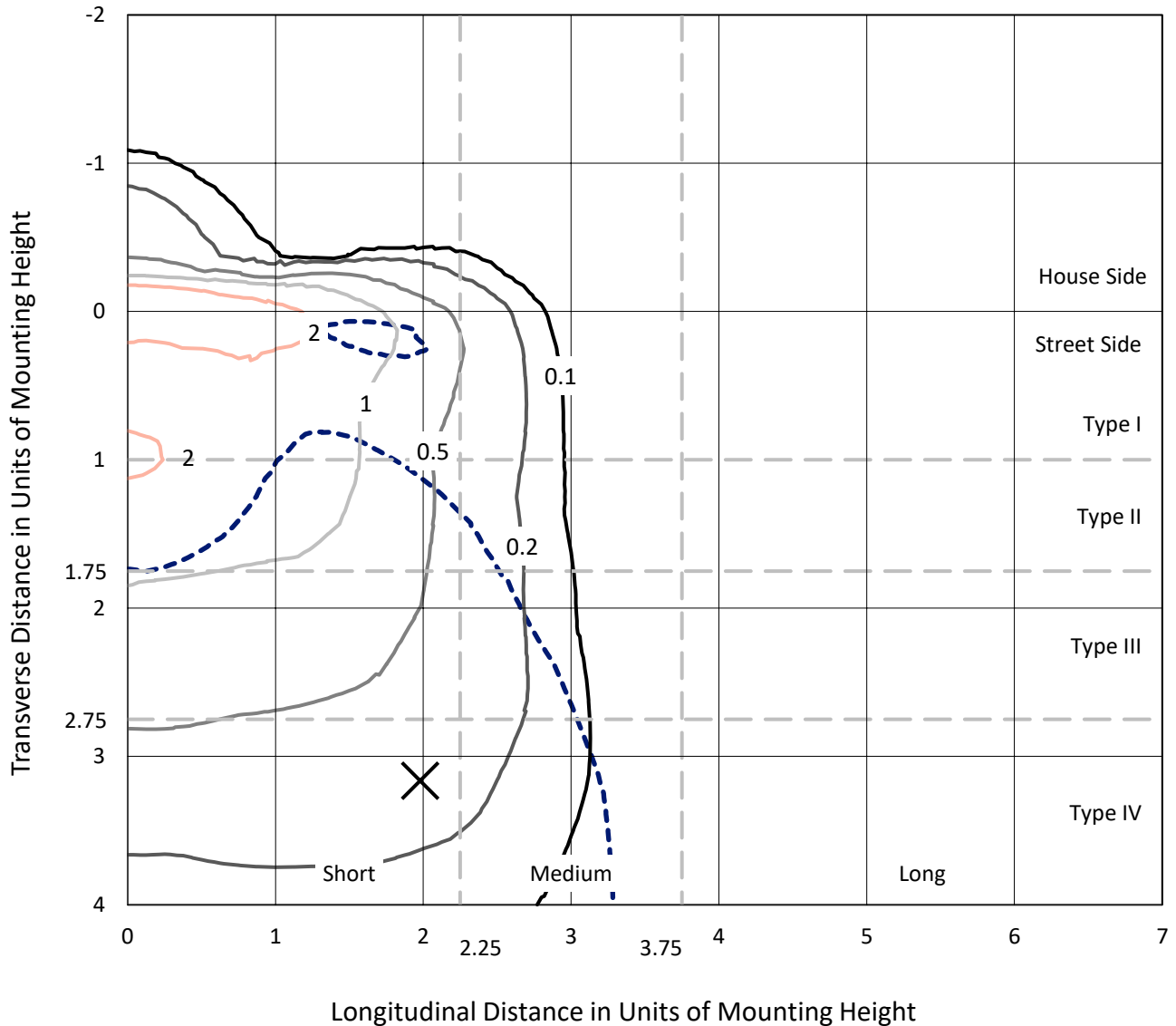
Lumens per Lamp: N/A
Luminaire Lumens: 4436.2 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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: P673466
 CATALOG NUMBER: CCP-SA-1F-835-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

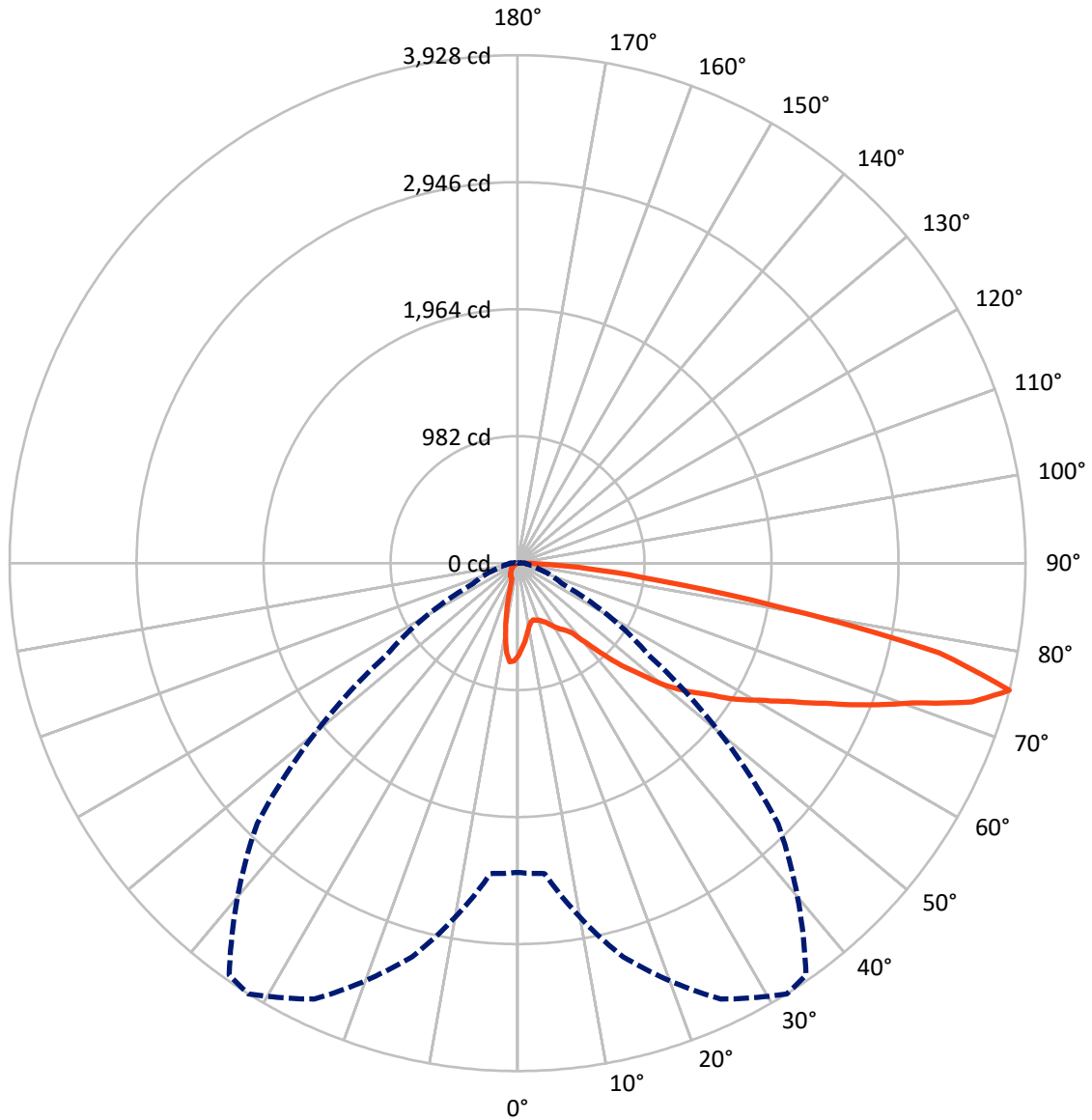
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P673466
CATALOG NUMBER: CCP-SA-1F-835-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P673466
 CATALOG NUMBER: CCP-SA-1F-835-U-T4FT-HSS

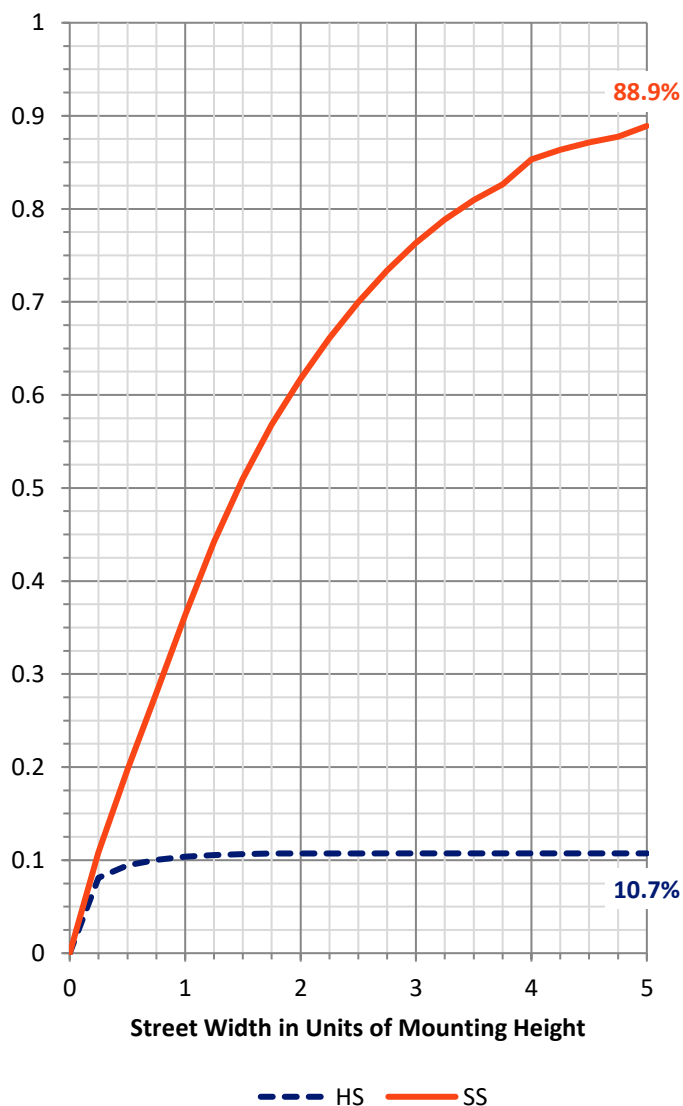
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 479.2 | 0.0 | 479.2 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 3956.9 | 0.0 | 3956.9 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 4436.2 | 0.0 | 4436.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.0 | 1.4 |
| 10°-20° | 142.9 | 3.2 |
| 20°-30° | 214.0 | 4.8 |
| 30°-40° | 328.5 | 7.4 |
| 40°-50° | 574.4 | 12.9 |
| 50°-60° | 897.8 | 20.2 |
| 60°-70° | 1160.8 | 26.2 |
| 70°-80° | 945.4 | 21.3 |
| 80°-90° | 109.4 | 2.5 |
| 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° | 4436.2 | 100.0 |
| 0°-180° | 4436.2 | 100.0 |



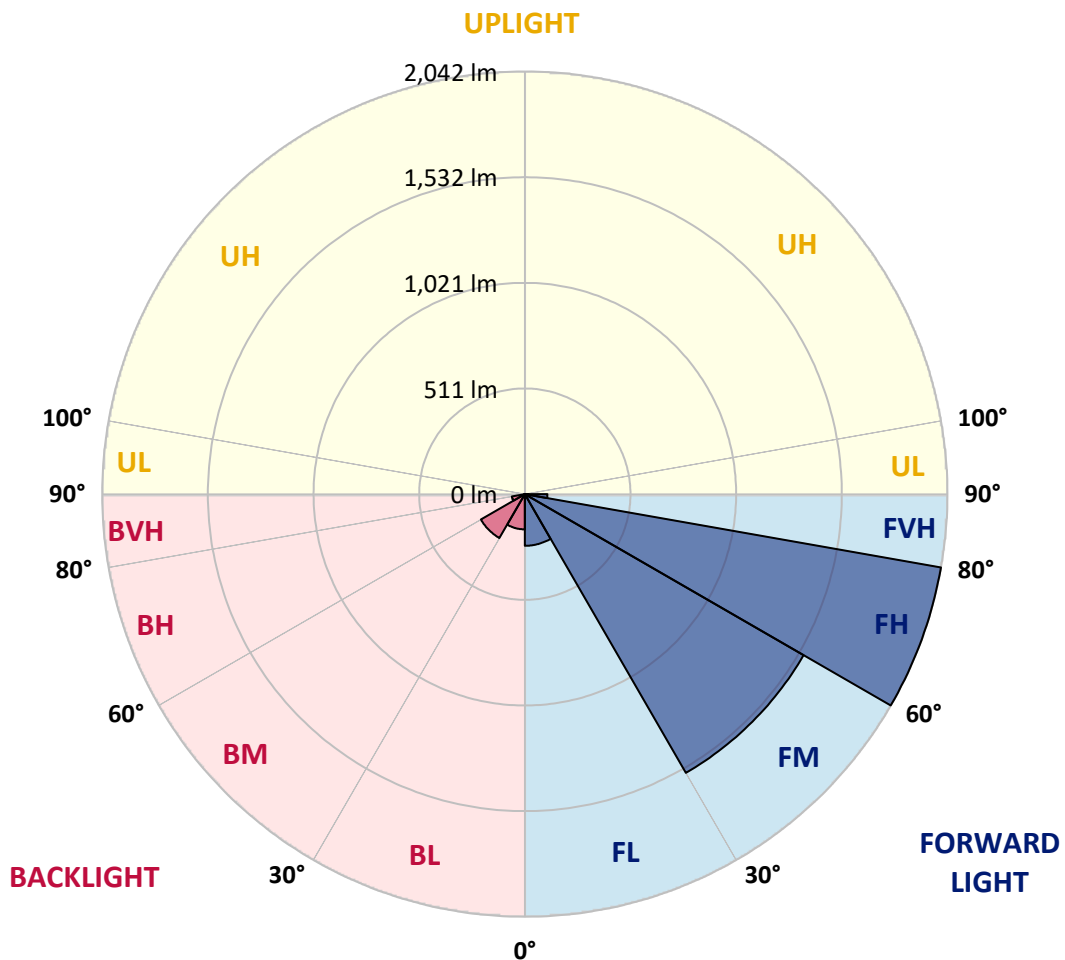
REPORT NUMBER: P673466
 CATALOG NUMBER: CCP-SA-1F-835-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 249.6 | 5.6 | | | |
| FM (30°-60°) | 1555.5 | 35.1 | | | |
| FH (60°-80°) | 2042.5 | 46.0 | | | G2/5000 |
| FVH (80°-90°) | 109.4 | 2.5 | | | G2/225 |
| BL (0°-30°) | 170.2 | 3.8 | B1/500 | | |
| BM (30°-60°) | 245.2 | 5.5 | B1/1000 | | |
| BH (60°-80°) | 63.7 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| 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 Short





REPORT NUMBER: P673466

CATALOG NUMBER: CCP-SA-1F-835-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 |
| 2.5° | 642.4 | 651.5 | 650.4 | 656.0 | 657.2 | 660.6 | 668.5 | 668.5 | 691.3 | 707.2 | 717.4 |
| 5° | 584.4 | 578.7 | 581.0 | 587.8 | 604.9 | 603.7 | 623.1 | 633.3 | 660.6 | 683.3 | 707.2 |
| 7.5° | 512.8 | 511.6 | 516.2 | 532.1 | 544.6 | 554.8 | 575.3 | 601.5 | 637.8 | 672.0 | 714.0 |
| 10° | 467.3 | 465.0 | 474.1 | 478.7 | 493.5 | 500.3 | 532.1 | 573.0 | 616.2 | 665.1 | 714.0 |
| 12.5° | 457.1 | 449.1 | 453.7 | 452.5 | 466.2 | 469.6 | 500.3 | 550.3 | 602.6 | 662.9 | 723.1 |
| 15° | 462.8 | 457.1 | 452.5 | 452.5 | 455.9 | 458.2 | 491.2 | 535.5 | 594.6 | 666.3 | 743.6 |
| 17.5° | 480.9 | 477.5 | 463.9 | 450.2 | 465.0 | 465.0 | 485.5 | 532.1 | 595.8 | 676.5 | 768.6 |
| 20° | 502.5 | 499.1 | 475.3 | 459.3 | 469.6 | 480.9 | 502.5 | 540.1 | 599.2 | 684.5 | 807.3 |
| 22.5° | 526.4 | 526.4 | 493.5 | 475.3 | 488.9 | 490.0 | 528.7 | 565.1 | 612.8 | 704.9 | 832.3 |
| 25° | 556.0 | 553.7 | 521.9 | 501.4 | 506.0 | 518.5 | 553.7 | 592.4 | 637.8 | 733.4 | 878.9 |
| 27.5° | 594.6 | 591.2 | 553.7 | 533.2 | 538.9 | 552.6 | 592.4 | 631.0 | 660.6 | 744.7 | 918.7 |
| 30° | 626.5 | 623.1 | 592.4 | 561.7 | 574.2 | 586.7 | 633.3 | 667.4 | 689.0 | 766.3 | 964.2 |
| 32.5° | 633.3 | 627.6 | 607.2 | 593.5 | 607.2 | 631.0 | 667.4 | 702.7 | 735.6 | 820.9 | 1050.6 |
| 35° | 711.8 | 691.3 | 637.8 | 616.2 | 636.7 | 644.7 | 704.9 | 767.5 | 799.3 | 864.1 | 1147.2 |
| 37.5° | 861.8 | 842.5 | 772.0 | 711.8 | 683.3 | 692.4 | 770.9 | 848.2 | 878.9 | 944.8 | 1253.0 |
| 40° | 1046.0 | 1014.2 | 939.2 | 858.4 | 800.4 | 789.1 | 840.2 | 953.9 | 983.5 | 1046.0 | 1391.7 |
| 42.5° | 1256.4 | 1225.7 | 1109.7 | 1014.2 | 955.1 | 940.3 | 948.2 | 1076.7 | 1101.7 | 1139.3 | 1482.6 |
| 45° | 1407.6 | 1391.7 | 1260.9 | 1175.6 | 1129.0 | 1113.1 | 1093.8 | 1210.9 | 1242.7 | 1255.2 | 1614.5 |
| 47.5° | 1495.1 | 1483.8 | 1411.0 | 1353.0 | 1290.5 | 1273.4 | 1285.9 | 1397.4 | 1375.8 | 1386.0 | 1740.7 |
| 50° | 1612.2 | 1582.7 | 1483.8 | 1502.0 | 1489.5 | 1484.9 | 1506.5 | 1555.4 | 1523.6 | 1494.0 | 1878.3 |
| 52.5° | 1706.6 | 1654.3 | 1585.0 | 1629.3 | 1648.6 | 1665.7 | 1741.9 | 1778.2 | 1636.1 | 1590.6 | 1967.0 |
| 55° | 1764.6 | 1714.6 | 1732.8 | 1773.7 | 1794.2 | 1872.6 | 1962.4 | 1935.2 | 1710.0 | 1668.0 | 2085.2 |
| 57.5° | 1816.9 | 1820.3 | 1869.2 | 1881.7 | 1986.3 | 2000.0 | 2172.8 | 2084.1 | 1762.3 | 1738.5 | 2131.9 |
| 60° | 1943.1 | 1930.6 | 1970.4 | 2051.1 | 2151.2 | 2227.4 | 2392.2 | 2184.2 | 1788.5 | 1774.8 | 2119.3 |
| 62.5° | 2170.5 | 2093.2 | 2106.8 | 2209.2 | 2355.8 | 2438.8 | 2518.4 | 2229.6 | 1781.7 | 1780.5 | 2081.8 |
| 65° | 2459.3 | 2370.6 | 2329.7 | 2425.2 | 2615.1 | 2732.2 | 2660.6 | 2280.8 | 1736.2 | 1768.0 | 1942.0 |
| 67.5° | 2699.2 | 2700.3 | 2624.2 | 2677.6 | 2925.5 | 2950.5 | 2794.7 | 2270.6 | 1660.0 | 1669.1 | 1600.9 |
| 70° | 2975.5 | 3013.0 | 2945.9 | 3113.1 | 3237.0 | 3252.9 | 2948.2 | 2186.4 | 1496.3 | 1258.6 | 919.8 |
| 72.5° | 3046.0 | 3065.3 | 3274.5 | 3531.5 | 3671.3 | 3675.9 | 3099.4 | 1905.6 | 984.6 | 556.0 | 285.4 |
| 75° | 2392.2 | 2410.4 | 3151.7 | 3720.2 | 3928.3 | 3888.5 | 2847.0 | 1237.0 | 383.2 | 162.6 | 68.2 |
| 77.5° | 1334.8 | 1340.5 | 1956.8 | 3007.3 | 3332.5 | 3172.2 | 1994.3 | 482.1 | 154.6 | 93.2 | 31.8 |
| 80° | 365.0 | 428.6 | 725.4 | 1482.6 | 2035.2 | 1997.7 | 949.4 | 156.9 | 100.1 | 72.8 | 14.8 |
| 82.5° | 87.5 | 94.4 | 233.1 | 656.0 | 1075.6 | 1122.2 | 283.1 | 79.6 | 69.4 | 60.3 | 8.0 |
| 85° | 31.8 | 35.2 | 71.6 | 319.5 | 552.6 | 507.1 | 85.3 | 39.8 | 51.2 | 46.6 | 3.4 |
| 87.5° | 11.4 | 11.4 | 22.7 | 104.6 | 161.5 | 121.7 | 28.4 | 13.6 | 26.2 | 28.4 | 1.1 |
| 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: P673466
 CATALOG NUMBER: CCP-SA-1F-835-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 | 716.3 |
| 2.5° | 718.6 | 718.6 | 734.5 | 748.1 | 752.7 | 758.4 | 752.7 | 765.2 | 764.1 | 758.4 | 760.6 |
| 5° | 719.7 | 740.2 | 753.8 | 762.9 | 767.5 | 766.3 | 768.6 | 755.0 | 747.0 | 741.3 | 735.6 |
| 7.5° | 725.4 | 744.7 | 769.7 | 767.5 | 755.0 | 728.8 | 708.3 | 672.0 | 636.7 | 635.6 | 629.9 |
| 10° | 744.7 | 761.8 | 776.6 | 767.5 | 722.0 | 642.4 | 577.6 | 528.7 | 484.4 | 463.9 | 466.2 |
| 12.5° | 758.4 | 790.2 | 783.4 | 736.8 | 642.4 | 537.8 | 442.3 | 370.7 | 330.9 | 293.3 | 293.3 |
| 15° | 786.8 | 798.2 | 795.9 | 692.4 | 544.6 | 419.5 | 303.6 | 230.8 | 188.7 | 171.7 | 169.4 |
| 17.5° | 814.1 | 826.6 | 787.9 | 625.3 | 448.0 | 282.0 | 184.2 | 143.3 | 137.6 | 135.3 | 136.4 |
| 20° | 848.2 | 849.3 | 781.1 | 558.3 | 336.5 | 178.5 | 131.9 | 128.5 | 129.6 | 128.5 | 128.5 |
| 22.5° | 884.6 | 892.5 | 757.2 | 463.9 | 224.0 | 129.6 | 122.8 | 123.9 | 123.9 | 123.9 | 127.3 |
| 25° | 932.3 | 919.8 | 719.7 | 374.1 | 146.7 | 119.4 | 119.4 | 120.5 | 120.5 | 120.5 | 121.7 |
| 27.5° | 964.2 | 947.1 | 672.0 | 269.5 | 114.8 | 112.6 | 114.8 | 114.8 | 117.1 | 117.1 | 117.1 |
| 30° | 1030.1 | 985.8 | 611.7 | 174.0 | 103.5 | 106.9 | 109.2 | 111.4 | 112.6 | 114.8 | 116.0 |
| 32.5° | 1081.3 | 1019.9 | 536.7 | 116.0 | 94.4 | 96.6 | 102.3 | 106.9 | 111.4 | 110.3 | 110.3 |
| 35° | 1174.5 | 1075.6 | 467.3 | 92.1 | 86.4 | 86.4 | 92.1 | 100.1 | 106.9 | 109.2 | 109.2 |
| 37.5° | 1281.4 | 1121.1 | 370.7 | 84.1 | 79.6 | 79.6 | 83.0 | 92.1 | 101.2 | 105.7 | 103.5 |
| 40° | 1370.1 | 1173.4 | 274.0 | 78.5 | 73.9 | 73.9 | 76.2 | 83.0 | 93.2 | 101.2 | 102.3 |
| 42.5° | 1432.6 | 1212.0 | 185.3 | 72.8 | 69.4 | 68.2 | 71.6 | 75.0 | 83.0 | 94.4 | 96.6 |
| 45° | 1489.5 | 1232.5 | 114.8 | 67.1 | 64.8 | 64.8 | 64.8 | 68.2 | 73.9 | 84.1 | 86.4 |
| 47.5° | 1590.6 | 1255.2 | 83.0 | 62.5 | 59.1 | 60.3 | 61.4 | 62.5 | 67.1 | 69.4 | 70.5 |
| 50° | 1675.9 | 1272.3 | 68.2 | 58.0 | 55.7 | 56.8 | 56.8 | 56.8 | 59.1 | 55.7 | 55.7 |
| 52.5° | 1740.7 | 1255.2 | 58.0 | 53.4 | 51.2 | 52.3 | 51.2 | 51.2 | 48.9 | 44.3 | 44.3 |
| 55° | 1788.5 | 1224.5 | 46.6 | 48.9 | 48.9 | 48.9 | 46.6 | 43.2 | 38.7 | 35.2 | 35.2 |
| 57.5° | 1801.0 | 1172.2 | 36.4 | 40.9 | 44.3 | 44.3 | 39.8 | 35.2 | 29.6 | 26.2 | 25.0 |
| 60° | 1781.7 | 1058.5 | 27.3 | 29.6 | 34.1 | 35.2 | 31.8 | 26.2 | 20.5 | 17.1 | 17.1 |
| 62.5° | 1712.3 | 968.7 | 21.6 | 19.3 | 25.0 | 26.2 | 22.7 | 17.1 | 11.4 | 8.0 | 6.8 |
| 65° | 1580.4 | 830.0 | 15.9 | 13.6 | 17.1 | 18.2 | 14.8 | 8.0 | 3.4 | 1.1 | 0.0 |
| 67.5° | 1267.7 | 625.3 | 10.2 | 9.1 | 11.4 | 11.4 | 6.8 | 2.3 | 0.0 | 0.0 | 0.0 |
| 70° | 701.5 | 351.3 | 6.8 | 4.5 | 5.7 | 3.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 202.4 | 100.1 | 3.4 | 2.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 54.6 | 23.9 | 2.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 23.9 | 9.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 10.2 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 5.7 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)