

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: P673398

Luminaire Tested: **CCP-SA-1D-735-U-T4FT-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673398
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1D-735-U-T4FT-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T4FT distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

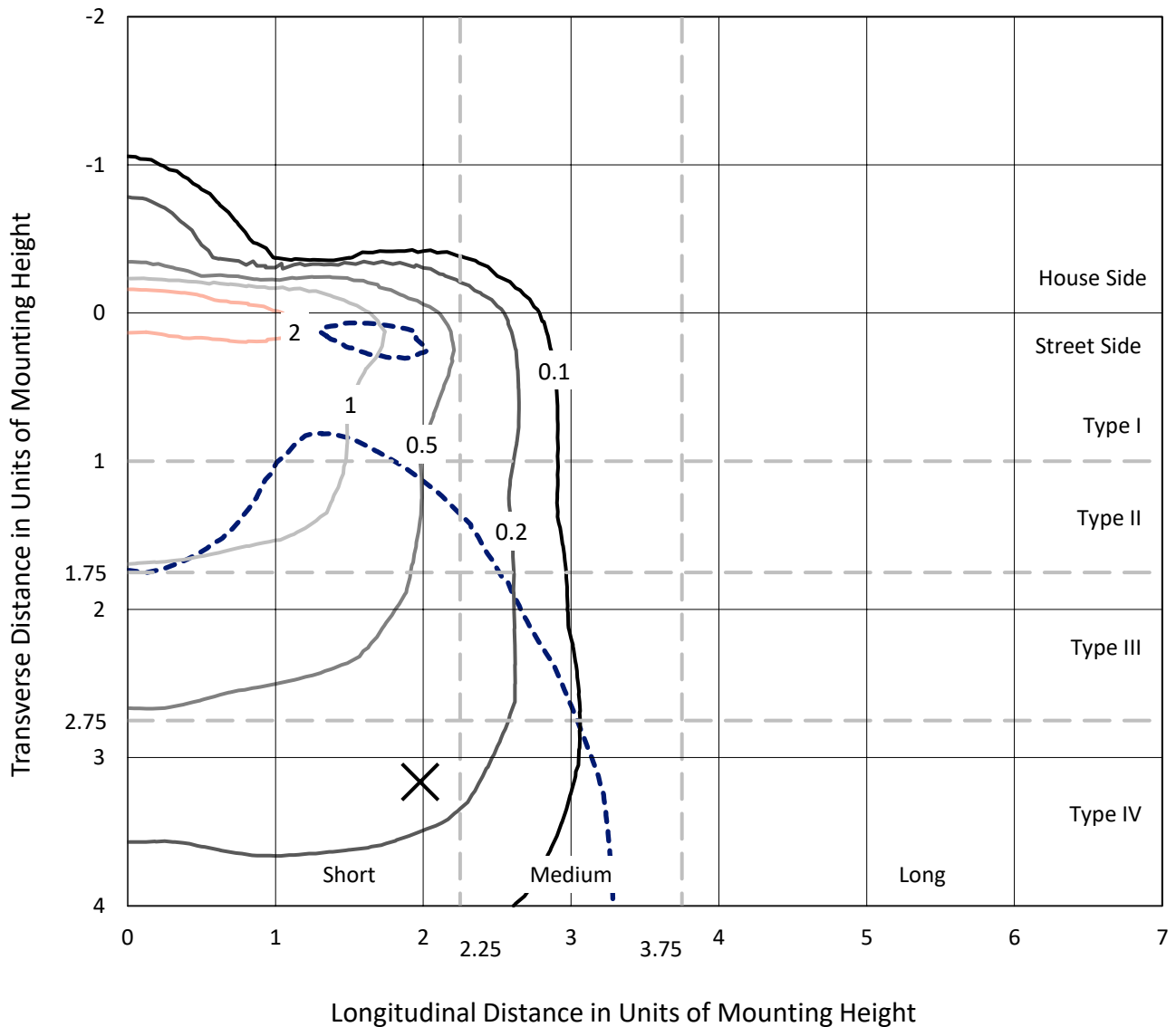
Lumens per Lamp: N/A
Luminaire Lumens: 3949.6 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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: P673398
 CATALOG NUMBER: CCP-SA-1D-735-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

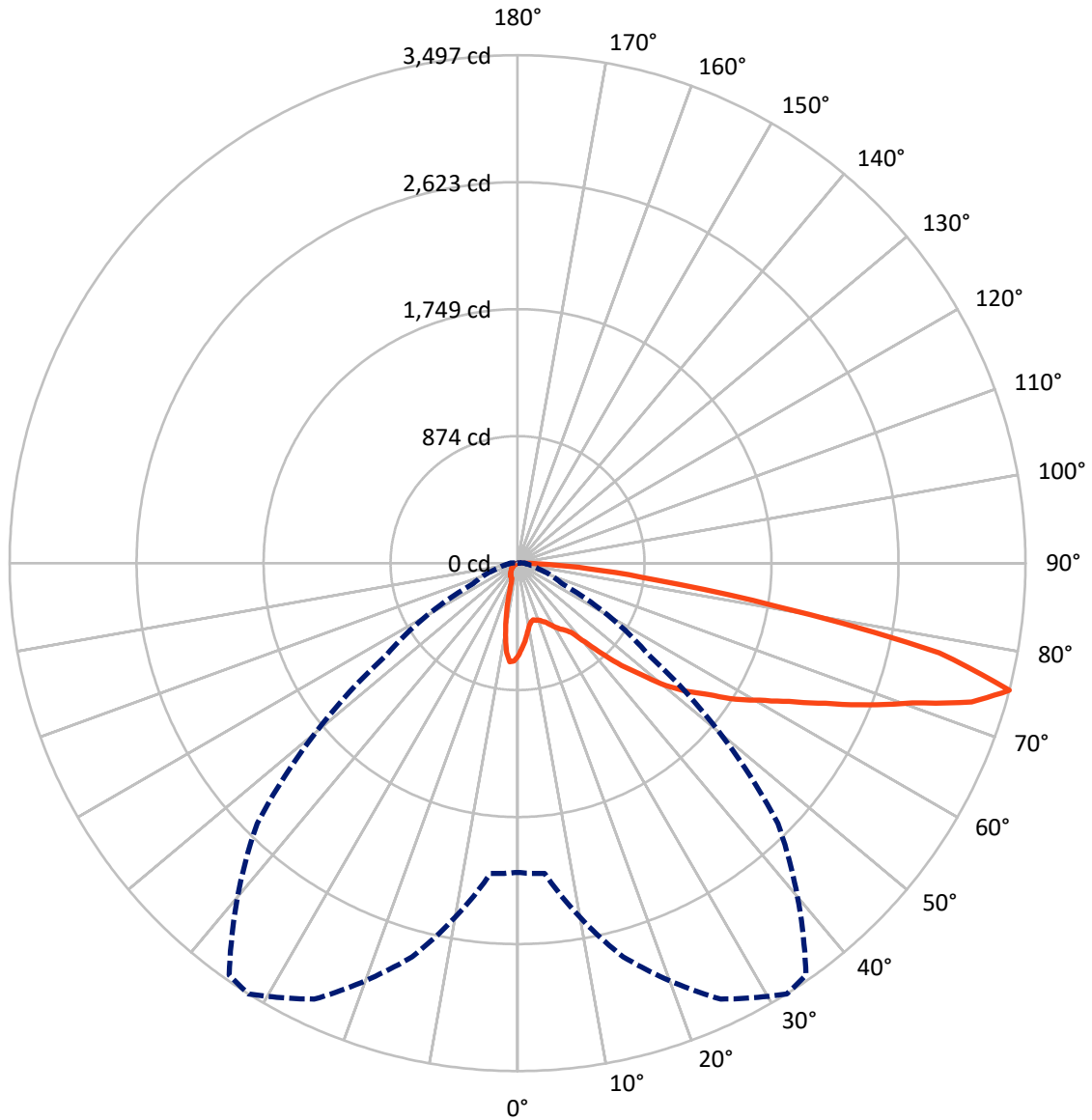
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P673398
CATALOG NUMBER: CCP-SA-1D-735-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P673398

CATALOG NUMBER: CCP-SA-1D-735-U-T4FT-HSS

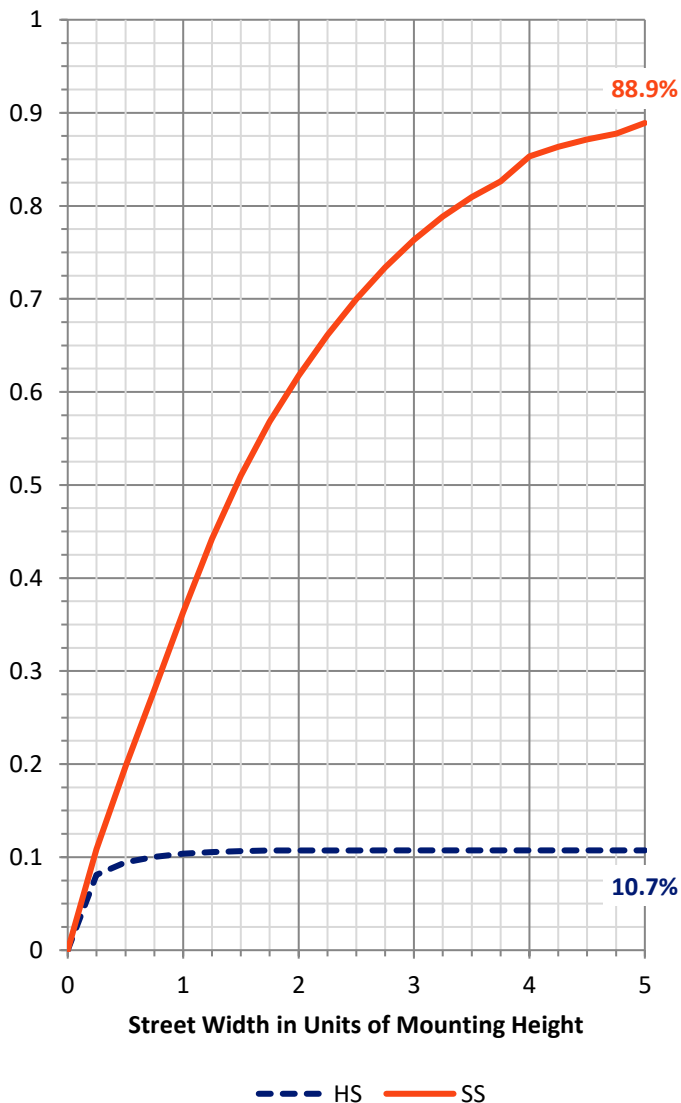
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 426.7 | 0.0 | 426.7 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 3522.9 | 0.0 | 3522.9 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 3949.6 | 0.0 | 3949.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.1 | 1.4 |
| 10°-20° | 127.2 | 3.2 |
| 20°-30° | 190.5 | 4.8 |
| 30°-40° | 292.4 | 7.4 |
| 40°-50° | 511.4 | 12.9 |
| 50°-60° | 799.4 | 20.2 |
| 60°-70° | 1033.5 | 26.2 |
| 70°-80° | 841.7 | 21.3 |
| 80°-90° | 97.4 | 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° | 3949.6 | 100.0 |
| 0°-180° | 3949.6 | 100.0 |



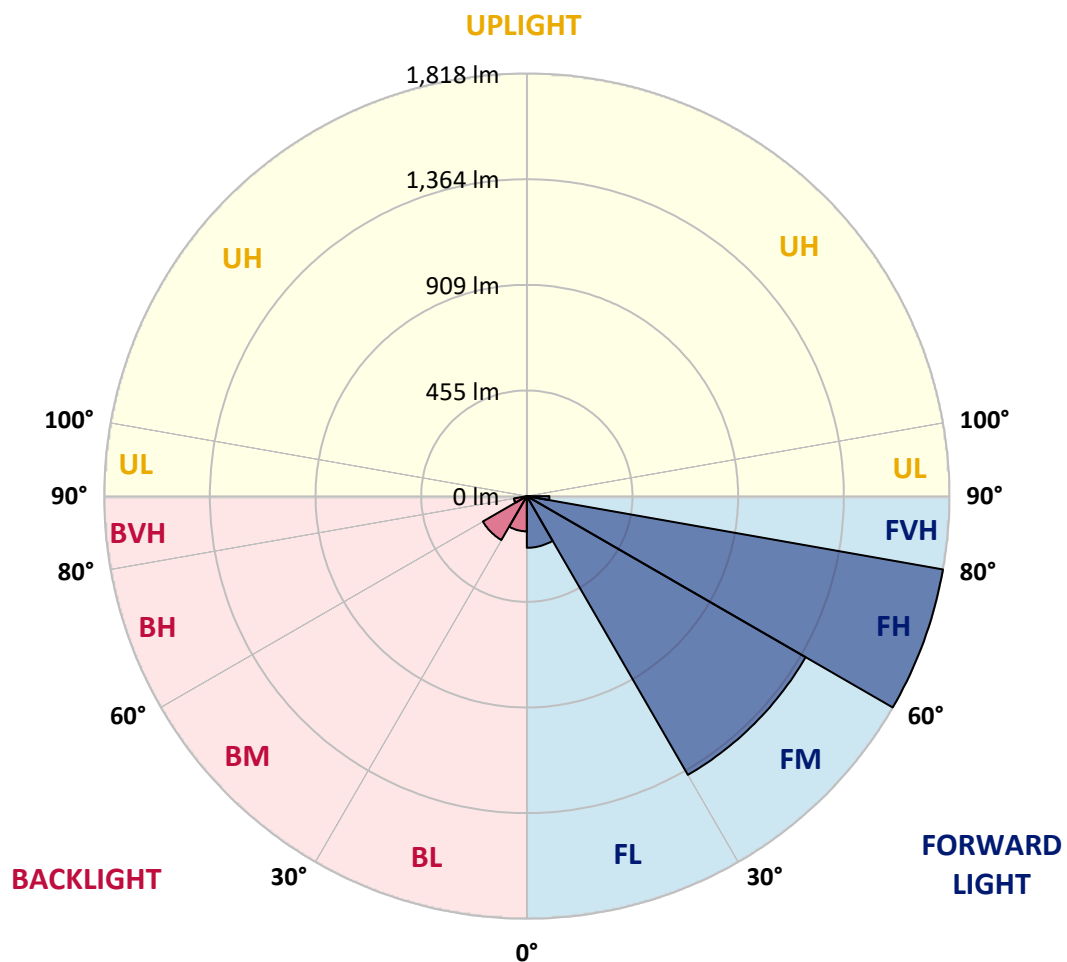
REPORT NUMBER: P673398
 CATALOG NUMBER: CCP-SA-1D-735-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 222.2 | 5.6 | | | |
| FM (30°-60°) | 1384.9 | 35.1 | | | |
| FH (60°-80°) | 1818.4 | 46.0 | | | G2/5000 |
| FVH (80°-90°) | 97.4 | 2.5 | | | G1/100 |
| BL (0°-30°) | 151.6 | 3.8 | B1/500 | | |
| BM (30°-60°) | 218.3 | 5.5 | B0/220 | | |
| BH (60°-80°) | 56.8 | 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: P673398

CATALOG NUMBER: CCP-SA-1D-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 637.7 | 637.7 | 637.7 | 637.7 | 637.7 | 637.7 | 637.7 | 637.7 | 637.7 | 637.7 | 637.7 |
| 2.5° | 571.9 | 580.0 | 579.0 | 584.1 | 585.1 | 588.1 | 595.2 | 595.2 | 615.5 | 629.6 | 638.8 |
| 5° | 520.3 | 515.3 | 517.3 | 523.4 | 538.5 | 537.5 | 554.7 | 563.8 | 588.1 | 608.4 | 629.6 |
| 7.5° | 456.5 | 455.5 | 459.6 | 473.7 | 484.9 | 494.0 | 512.2 | 535.5 | 567.9 | 598.3 | 635.7 |
| 10° | 416.0 | 414.0 | 422.1 | 426.2 | 439.3 | 445.4 | 473.7 | 510.2 | 548.7 | 592.2 | 635.7 |
| 12.5° | 406.9 | 399.9 | 403.9 | 402.9 | 415.0 | 418.1 | 445.4 | 489.9 | 536.5 | 590.2 | 643.8 |
| 15° | 412.0 | 406.9 | 402.9 | 402.9 | 405.9 | 408.0 | 437.3 | 476.8 | 529.4 | 593.2 | 662.0 |
| 17.5° | 428.2 | 425.2 | 413.0 | 400.9 | 414.0 | 414.0 | 432.2 | 473.7 | 530.4 | 602.3 | 684.3 |
| 20° | 447.4 | 444.4 | 423.1 | 409.0 | 418.1 | 428.2 | 447.4 | 480.8 | 533.5 | 609.4 | 718.7 |
| 22.5° | 468.7 | 468.7 | 439.3 | 423.1 | 435.3 | 436.3 | 470.7 | 503.1 | 545.6 | 627.6 | 741.0 |
| 25° | 495.0 | 493.0 | 464.6 | 446.4 | 450.5 | 461.6 | 493.0 | 527.4 | 567.9 | 652.9 | 782.5 |
| 27.5° | 529.4 | 526.4 | 493.0 | 474.8 | 479.8 | 492.0 | 527.4 | 561.8 | 588.1 | 663.0 | 817.9 |
| 30° | 557.8 | 554.7 | 527.4 | 500.1 | 511.2 | 522.3 | 563.8 | 594.2 | 613.4 | 682.3 | 858.4 |
| 32.5° | 563.8 | 558.8 | 540.6 | 528.4 | 540.6 | 561.8 | 594.2 | 625.6 | 654.9 | 730.9 | 935.4 |
| 35° | 633.7 | 615.5 | 567.9 | 548.7 | 566.9 | 574.0 | 627.6 | 683.3 | 711.6 | 769.3 | 1021.4 |
| 37.5° | 767.3 | 750.1 | 687.3 | 633.7 | 608.4 | 616.5 | 686.3 | 755.2 | 782.5 | 841.2 | 1115.5 |
| 40° | 931.3 | 903.0 | 836.1 | 764.3 | 712.6 | 702.5 | 748.1 | 849.3 | 875.6 | 931.3 | 1239.0 |
| 42.5° | 1118.6 | 1091.2 | 988.0 | 903.0 | 850.3 | 837.2 | 844.2 | 958.6 | 980.9 | 1014.3 | 1320.0 |
| 45° | 1253.2 | 1239.0 | 1122.6 | 1046.7 | 1005.2 | 991.0 | 973.8 | 1078.1 | 1106.4 | 1117.6 | 1437.4 |
| 47.5° | 1331.2 | 1321.0 | 1256.2 | 1204.6 | 1148.9 | 1133.8 | 1144.9 | 1244.1 | 1224.9 | 1234.0 | 1549.8 |
| 50° | 1435.4 | 1409.1 | 1321.0 | 1337.2 | 1326.1 | 1322.0 | 1341.3 | 1384.8 | 1356.5 | 1330.1 | 1672.3 |
| 52.5° | 1519.4 | 1472.9 | 1411.1 | 1450.6 | 1467.8 | 1483.0 | 1550.8 | 1583.2 | 1456.7 | 1416.2 | 1751.3 |
| 55° | 1571.1 | 1526.5 | 1542.7 | 1579.2 | 1597.4 | 1667.2 | 1747.2 | 1722.9 | 1522.5 | 1485.0 | 1856.5 |
| 57.5° | 1617.6 | 1620.7 | 1664.2 | 1675.3 | 1768.5 | 1780.6 | 1934.5 | 1855.5 | 1569.0 | 1547.8 | 1898.0 |
| 60° | 1730.0 | 1718.9 | 1754.3 | 1826.2 | 1915.2 | 1983.1 | 2129.8 | 1944.6 | 1592.3 | 1580.2 | 1886.9 |
| 62.5° | 1932.5 | 1863.6 | 1875.8 | 1966.9 | 2097.5 | 2171.4 | 2242.2 | 1985.1 | 1586.3 | 1585.2 | 1853.5 |
| 65° | 2189.6 | 2110.6 | 2074.2 | 2159.2 | 2328.3 | 2432.5 | 2368.7 | 2030.6 | 1545.8 | 1574.1 | 1729.0 |
| 67.5° | 2403.2 | 2404.2 | 2336.4 | 2383.9 | 2604.6 | 2626.9 | 2488.2 | 2021.5 | 1477.9 | 1486.0 | 1425.3 |
| 70° | 2649.2 | 2682.6 | 2622.8 | 2771.6 | 2882.0 | 2896.1 | 2624.9 | 1946.6 | 1332.2 | 1120.6 | 818.9 |
| 72.5° | 2711.9 | 2729.1 | 2915.4 | 3144.2 | 3268.7 | 3272.7 | 2759.5 | 1696.6 | 876.6 | 495.0 | 254.1 |
| 75° | 2129.8 | 2146.0 | 2806.1 | 3312.2 | 3497.4 | 3462.0 | 2534.8 | 1101.4 | 341.1 | 144.8 | 60.7 |
| 77.5° | 1188.4 | 1193.5 | 1742.1 | 2677.5 | 2967.0 | 2824.3 | 1775.5 | 429.2 | 137.7 | 83.0 | 28.3 |
| 80° | 324.9 | 381.6 | 645.8 | 1320.0 | 1812.0 | 1778.6 | 845.3 | 139.7 | 89.1 | 64.8 | 13.2 |
| 82.5° | 77.9 | 84.0 | 207.5 | 584.1 | 957.6 | 999.1 | 252.1 | 70.9 | 61.7 | 53.7 | 7.1 |
| 85° | 28.3 | 31.4 | 63.8 | 284.5 | 492.0 | 451.5 | 75.9 | 35.4 | 45.6 | 41.5 | 3.0 |
| 87.5° | 10.1 | 10.1 | 20.2 | 93.1 | 143.7 | 108.3 | 25.3 | 12.1 | 23.3 | 25.3 | 1.0 |
| 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: P673398

CATALOG NUMBER: CCP-SA-1D-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 637.7 | 637.7 | 637.7 | 637.7 | 637.7 | 637.7 | 637.7 | 637.7 | 637.7 | 637.7 | 637.7 |
| 2.5° | 639.8 | 639.8 | 653.9 | 666.1 | 670.1 | 675.2 | 670.1 | 681.3 | 680.3 | 675.2 | 677.2 |
| 5° | 640.8 | 659.0 | 671.1 | 679.2 | 683.3 | 682.3 | 684.3 | 672.2 | 665.1 | 660.0 | 654.9 |
| 7.5° | 645.8 | 663.0 | 685.3 | 683.3 | 672.2 | 648.9 | 630.7 | 598.3 | 566.9 | 565.9 | 560.8 |
| 10° | 663.0 | 678.2 | 691.4 | 683.3 | 642.8 | 571.9 | 514.2 | 470.7 | 431.2 | 413.0 | 415.0 |
| 12.5° | 675.2 | 703.5 | 697.5 | 656.0 | 571.9 | 478.8 | 393.8 | 330.0 | 294.6 | 261.2 | 261.2 |
| 15° | 700.5 | 710.6 | 708.6 | 616.5 | 484.9 | 373.5 | 270.3 | 205.5 | 168.0 | 152.9 | 150.8 |
| 17.5° | 724.8 | 735.9 | 701.5 | 556.8 | 398.8 | 251.0 | 164.0 | 127.5 | 122.5 | 120.5 | 121.5 |
| 20° | 755.2 | 756.2 | 695.4 | 497.0 | 299.6 | 158.9 | 117.4 | 114.4 | 115.4 | 114.4 | 114.4 |
| 22.5° | 787.6 | 794.6 | 674.2 | 413.0 | 199.4 | 115.4 | 109.3 | 110.3 | 110.3 | 110.3 | 113.4 |
| 25° | 830.1 | 818.9 | 640.8 | 333.0 | 130.6 | 106.3 | 106.3 | 107.3 | 107.3 | 107.3 | 108.3 |
| 27.5° | 858.4 | 843.2 | 598.3 | 239.9 | 102.2 | 100.2 | 102.2 | 102.2 | 104.3 | 104.3 | 104.3 |
| 30° | 917.1 | 877.7 | 544.6 | 154.9 | 92.1 | 95.2 | 97.2 | 99.2 | 100.2 | 102.2 | 103.3 |
| 32.5° | 962.7 | 908.0 | 477.8 | 103.3 | 84.0 | 86.0 | 91.1 | 95.2 | 99.2 | 98.2 | 98.2 |
| 35° | 1045.7 | 957.6 | 416.0 | 82.0 | 76.9 | 76.9 | 82.0 | 89.1 | 95.2 | 97.2 | 97.2 |
| 37.5° | 1140.8 | 998.1 | 330.0 | 74.9 | 70.9 | 70.9 | 73.9 | 82.0 | 90.1 | 94.1 | 92.1 |
| 40° | 1219.8 | 1044.7 | 244.0 | 69.8 | 65.8 | 65.8 | 67.8 | 73.9 | 83.0 | 90.1 | 91.1 |
| 42.5° | 1275.5 | 1079.1 | 165.0 | 64.8 | 61.7 | 60.7 | 63.8 | 66.8 | 73.9 | 84.0 | 86.0 |
| 45° | 1326.1 | 1097.3 | 102.2 | 59.7 | 57.7 | 57.7 | 57.7 | 60.7 | 65.8 | 74.9 | 76.9 |
| 47.5° | 1416.2 | 1117.6 | 73.9 | 55.7 | 52.6 | 53.7 | 54.7 | 55.7 | 59.7 | 61.7 | 62.8 |
| 50° | 1492.1 | 1132.7 | 60.7 | 51.6 | 49.6 | 50.6 | 50.6 | 50.6 | 52.6 | 49.6 | 49.6 |
| 52.5° | 1549.8 | 1117.6 | 51.6 | 47.6 | 45.6 | 46.6 | 45.6 | 45.6 | 43.5 | 39.5 | 39.5 |
| 55° | 1592.3 | 1090.2 | 41.5 | 43.5 | 43.5 | 43.5 | 41.5 | 38.5 | 34.4 | 31.4 | 31.4 |
| 57.5° | 1603.5 | 1043.7 | 32.4 | 36.4 | 39.5 | 39.5 | 35.4 | 31.4 | 26.3 | 23.3 | 22.3 |
| 60° | 1586.3 | 942.4 | 24.3 | 26.3 | 30.4 | 31.4 | 28.3 | 23.3 | 18.2 | 15.2 | 15.2 |
| 62.5° | 1524.5 | 862.5 | 19.2 | 17.2 | 22.3 | 23.3 | 20.2 | 15.2 | 10.1 | 7.1 | 6.1 |
| 65° | 1407.1 | 739.0 | 14.2 | 12.1 | 15.2 | 16.2 | 13.2 | 7.1 | 3.0 | 1.0 | 0.0 |
| 67.5° | 1128.7 | 556.8 | 9.1 | 8.1 | 10.1 | 10.1 | 6.1 | 2.0 | 0.0 | 0.0 | 0.0 |
| 70° | 624.6 | 312.8 | 6.1 | 4.0 | 5.1 | 3.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 180.2 | 89.1 | 3.0 | 2.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 48.6 | 21.3 | 2.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 21.3 | 8.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 9.1 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 5.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.0 | 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)