

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: P676580

Luminaire Tested: **CCW-SA-2B-750-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676580  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-750-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

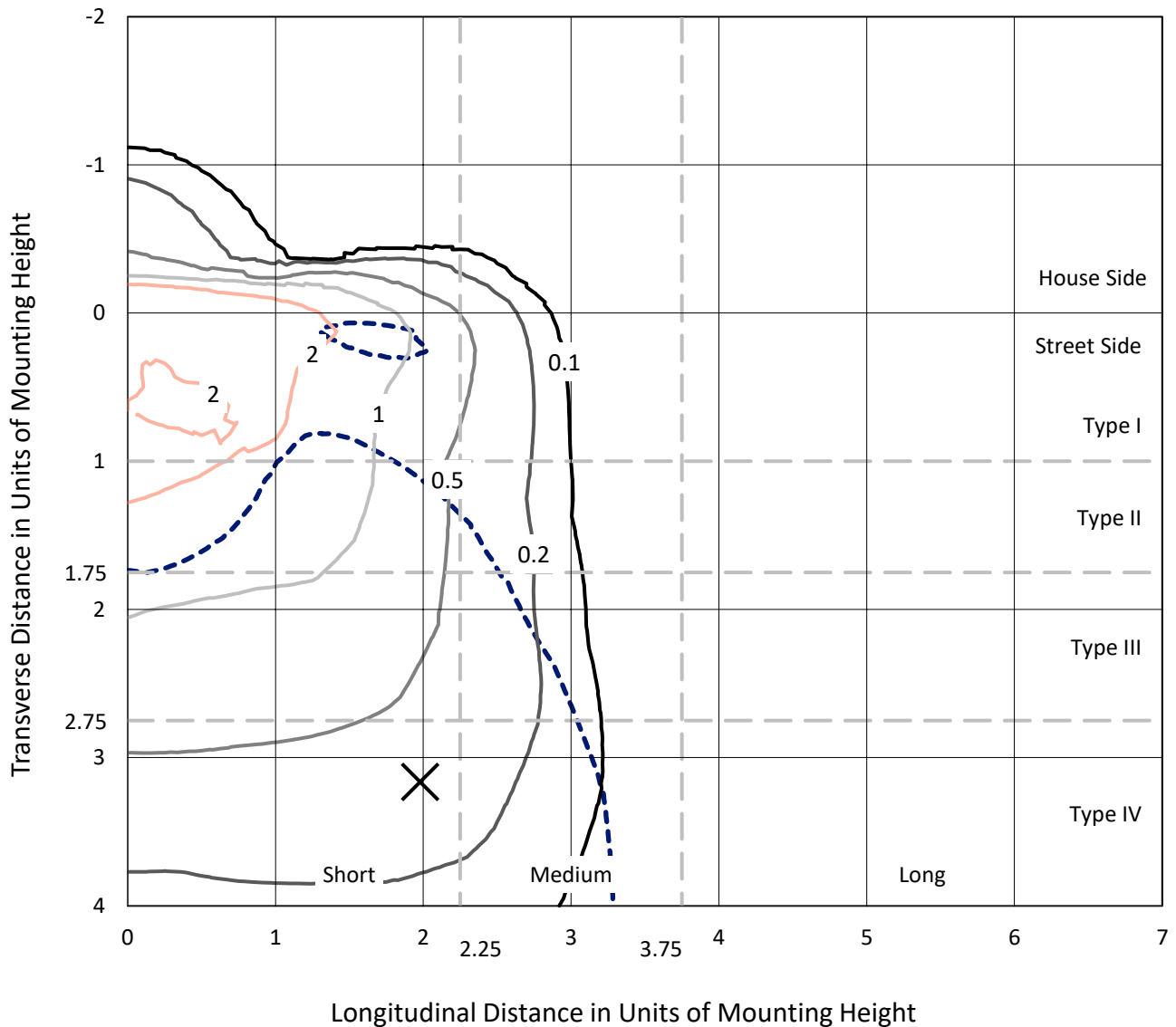
Lumens per Lamp: N/A  
Luminaire Lumens: 5072.5 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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: P676580  
 CATALOG NUMBER: CCW-SA-2B-750-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

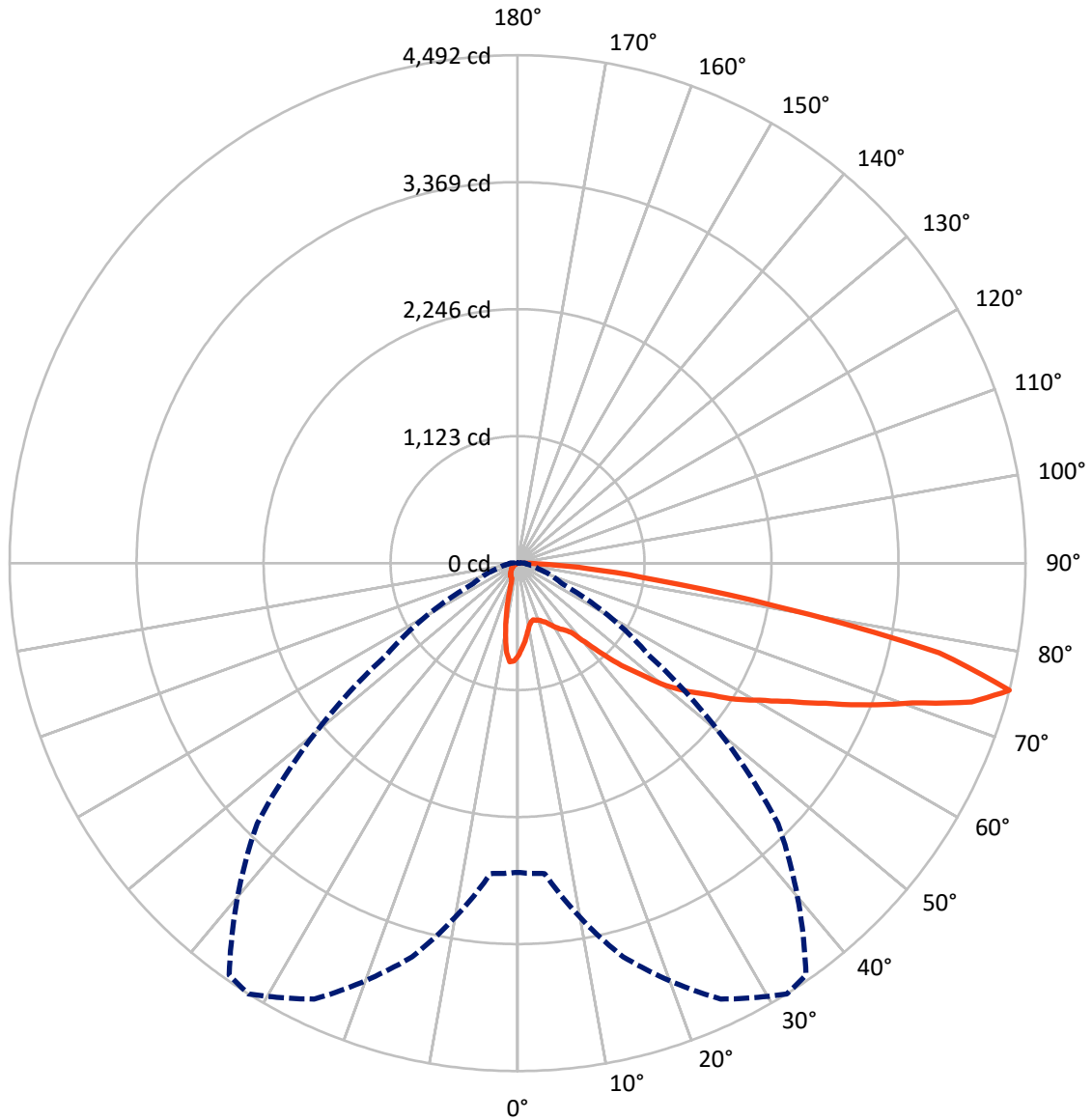
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P676580  
CATALOG NUMBER: CCW-SA-2B-750-U-T4FT-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P676580  
 CATALOG NUMBER: CCW-SA-2B-750-U-T4FT-HSS

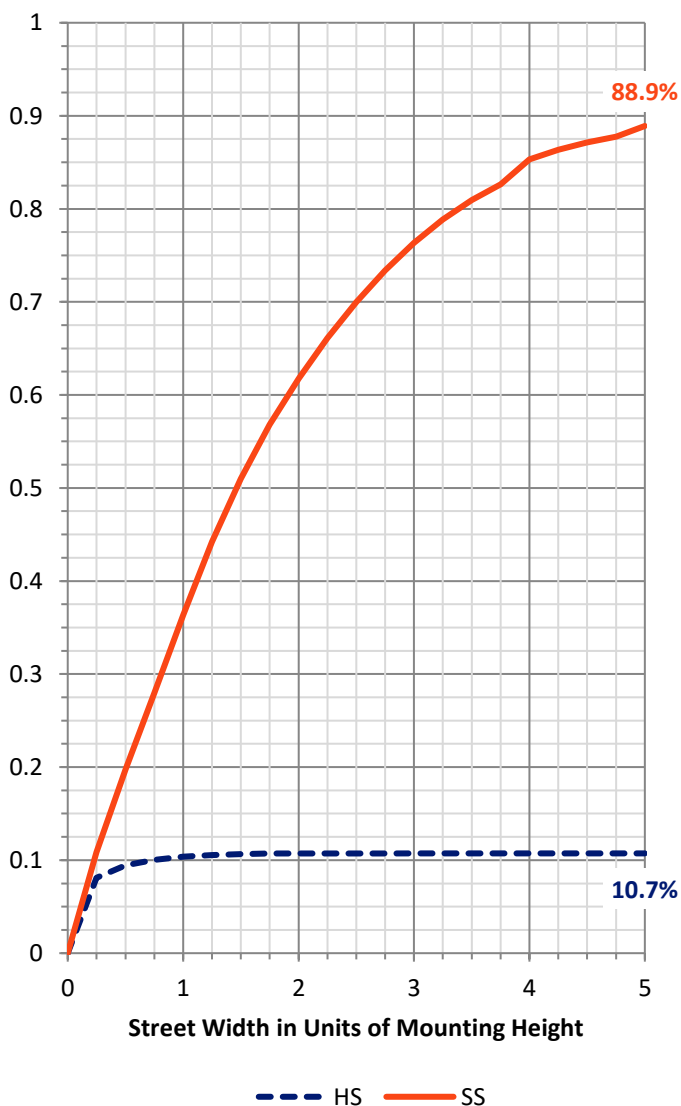
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 548.0    | 0.0    | 548.0  |
|                    | % Fixture | 10.8     | 0.0    | 10.8   |
| <b>Street Side</b> | Lumens    | 4524.5   | 0.0    | 4524.5 |
|                    | % Fixture | 89.2     | 0.0    | 89.2   |
| <b>Total</b>       | Lumens    | 5072.5   | 0.0    | 5072.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.0   | 1.4       |
| 10°-20°   | 163.4  | 3.2       |
| 20°-30°   | 244.7  | 4.8       |
| 30°-40°   | 375.6  | 7.4       |
| 40°-50°   | 656.8  | 12.9      |
| 50°-60°   | 1026.6 | 20.2      |
| 60°-70°   | 1327.3 | 26.2      |
| 70°-80°   | 1081.0 | 21.3      |
| 80°-90°   | 125.1  | 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°    | 5072.5 | 100.0     |
| 0°-180°   | 5072.5 | 100.0     |



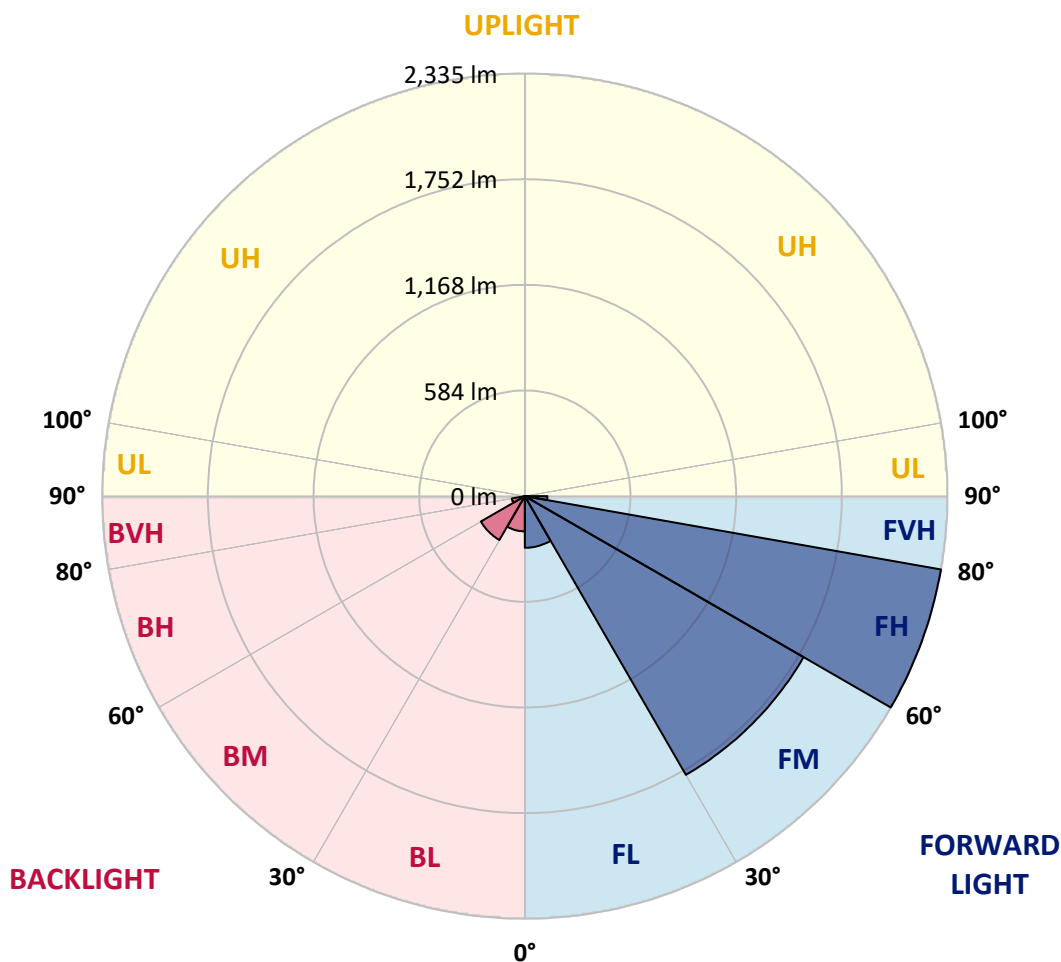
REPORT NUMBER: P676580  
 CATALOG NUMBER: CCW-SA-2B-750-U-T4FT-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 285.4  | 5.6       |                         |      |         |
| FM (30°-60°)   | 1778.7 | 35.1      |                         |      |         |
| FH (60°-80°)   | 2335.4 | 46.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 125.0  | 2.5       |                         |      | G2/225  |
| BL (0°-30°)    | 194.7  | 3.8       | B1/500                  |      |         |
| BM (30°-60°)   | 280.3  | 5.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 72.9   | 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: P676580

CATALOG NUMBER: CCW-SA-2B-750-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 32°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 819.1  | 819.1  | 819.1  | 819.1  | 819.1  | 819.1  | 819.1  | 819.1  | 819.1  | 819.1  | 819.1  |
| 2.5°  | 734.6  | 745.0  | 743.7  | 750.2  | 751.5  | 755.4  | 764.5  | 764.5  | 790.5  | 808.7  | 820.4  |
| 5°    | 668.2  | 661.7  | 664.3  | 672.1  | 691.6  | 690.3  | 712.5  | 724.2  | 755.4  | 781.4  | 808.7  |
| 7.5°  | 586.3  | 585.0  | 590.2  | 608.4  | 622.7  | 634.4  | 657.8  | 687.7  | 729.4  | 768.4  | 816.5  |
| 10°   | 534.3  | 531.7  | 542.1  | 547.3  | 564.2  | 572.0  | 608.4  | 655.2  | 704.7  | 760.6  | 816.5  |
| 12.5° | 522.6  | 513.5  | 518.7  | 517.4  | 533.0  | 536.9  | 572.0  | 629.2  | 689.0  | 758.0  | 826.9  |
| 15°   | 529.1  | 522.6  | 517.4  | 517.4  | 521.3  | 523.9  | 561.6  | 612.3  | 679.9  | 761.9  | 850.3  |
| 17.5° | 549.9  | 546.0  | 530.4  | 514.8  | 531.7  | 531.7  | 555.1  | 608.4  | 681.2  | 773.6  | 878.9  |
| 20°   | 574.6  | 570.7  | 543.4  | 525.2  | 536.9  | 549.9  | 574.6  | 617.5  | 685.1  | 782.7  | 923.1  |
| 22.5° | 601.9  | 601.9  | 564.2  | 543.4  | 559.0  | 560.3  | 604.5  | 646.1  | 700.7  | 806.1  | 951.7  |
| 25°   | 635.7  | 633.1  | 596.7  | 573.3  | 578.5  | 592.8  | 633.1  | 677.3  | 729.4  | 838.6  | 1005.0 |
| 27.5° | 679.9  | 676.0  | 633.1  | 609.7  | 616.2  | 631.8  | 677.3  | 721.6  | 755.4  | 851.6  | 1050.5 |
| 30°   | 716.4  | 712.5  | 677.3  | 642.2  | 656.5  | 670.8  | 724.2  | 763.2  | 787.9  | 876.3  | 1102.5 |
| 32.5° | 724.2  | 717.7  | 694.2  | 678.6  | 694.2  | 721.6  | 763.2  | 803.5  | 841.2  | 938.7  | 1201.3 |
| 35°   | 813.9  | 790.5  | 729.4  | 704.7  | 728.1  | 737.2  | 806.1  | 877.6  | 914.0  | 988.1  | 1311.8 |
| 37.5° | 985.5  | 963.4  | 882.8  | 813.9  | 781.4  | 791.8  | 881.5  | 969.9  | 1005.0 | 1080.4 | 1432.7 |
| 40°   | 1196.1 | 1159.7 | 1073.9 | 981.6  | 915.3  | 902.3  | 960.8  | 1090.8 | 1124.6 | 1196.1 | 1591.3 |
| 42.5° | 1436.6 | 1401.5 | 1268.9 | 1159.7 | 1092.1 | 1075.2 | 1084.3 | 1231.2 | 1259.8 | 1302.7 | 1695.3 |
| 45°   | 1609.5 | 1591.3 | 1441.8 | 1344.3 | 1291.0 | 1272.8 | 1250.7 | 1384.6 | 1421.0 | 1435.3 | 1846.1 |
| 47.5° | 1709.6 | 1696.6 | 1613.4 | 1547.1 | 1475.6 | 1456.1 | 1470.4 | 1597.8 | 1573.1 | 1584.8 | 1990.4 |
| 50°   | 1843.5 | 1809.7 | 1696.6 | 1717.4 | 1703.1 | 1697.9 | 1722.6 | 1778.5 | 1742.1 | 1708.3 | 2147.8 |
| 52.5° | 1951.4 | 1891.6 | 1812.3 | 1863.0 | 1885.1 | 1904.6 | 1991.7 | 2033.3 | 1870.8 | 1818.8 | 2249.2 |
| 55°   | 2017.7 | 1960.5 | 1981.3 | 2028.1 | 2051.5 | 2141.3 | 2244.0 | 2212.8 | 1955.3 | 1907.2 | 2384.4 |
| 57.5° | 2077.5 | 2081.4 | 2137.4 | 2151.7 | 2271.3 | 2286.9 | 2484.5 | 2383.1 | 2015.1 | 1987.8 | 2437.7 |
| 60°   | 2221.9 | 2207.6 | 2253.1 | 2345.4 | 2459.8 | 2546.9 | 2735.4 | 2497.5 | 2045.0 | 2029.4 | 2423.4 |
| 62.5° | 2481.9 | 2393.5 | 2409.1 | 2526.1 | 2693.8 | 2788.7 | 2879.7 | 2549.5 | 2037.2 | 2035.9 | 2380.5 |
| 65°   | 2812.1 | 2710.7 | 2663.9 | 2773.1 | 2990.2 | 3124.1 | 3042.2 | 2608.0 | 1985.2 | 2021.6 | 2220.6 |
| 67.5° | 3086.4 | 3087.7 | 3000.6 | 3061.7 | 3345.1 | 3373.7 | 3195.6 | 2596.3 | 1898.1 | 1908.5 | 1830.5 |
| 70°   | 3402.3 | 3445.2 | 3368.5 | 3559.7 | 3701.4 | 3719.6 | 3371.1 | 2500.1 | 1710.9 | 1439.2 | 1051.8 |
| 72.5° | 3482.9 | 3505.0 | 3744.3 | 4038.1 | 4198.0 | 4203.2 | 3544.1 | 2179.0 | 1125.9 | 635.7  | 326.3  |
| 75°   | 2735.4 | 2756.2 | 3603.9 | 4253.9 | 4491.8 | 4446.3 | 3255.4 | 1414.5 | 438.1  | 185.9  | 78.0   |
| 77.5° | 1526.3 | 1532.8 | 2237.5 | 3438.7 | 3810.6 | 3627.3 | 2280.4 | 551.2  | 176.8  | 106.6  | 36.4   |
| 80°   | 417.3  | 490.1  | 829.5  | 1695.3 | 2327.2 | 2284.3 | 1085.6 | 179.4  | 114.4  | 83.2   | 16.9   |
| 82.5° | 100.1  | 107.9  | 266.5  | 750.2  | 1229.9 | 1283.2 | 323.7  | 91.0   | 79.3   | 68.9   | 9.1    |
| 85°   | 36.4   | 40.3   | 81.9   | 365.3  | 631.8  | 579.8  | 97.5   | 45.5   | 58.5   | 53.3   | 3.9    |
| 87.5° | 13.0   | 13.0   | 26.0   | 119.6  | 184.6  | 139.1  | 32.5   | 15.6   | 29.9   | 32.5   | 1.3    |
| 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: P676580  
 CATALOG NUMBER: CCW-SA-2B-750-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 819.1  | 819.1  | 819.1 | 819.1 | 819.1 | 819.1 | 819.1 | 819.1 | 819.1 | 819.1 | 819.1 |
| 2.5°  | 821.7  | 821.7  | 839.9 | 855.5 | 860.7 | 867.2 | 860.7 | 875.0 | 873.7 | 867.2 | 869.8 |
| 5°    | 823.0  | 846.4  | 862.0 | 872.4 | 877.6 | 876.3 | 878.9 | 863.3 | 854.2 | 847.7 | 841.2 |
| 7.5°  | 829.5  | 851.6  | 880.2 | 877.6 | 863.3 | 833.4 | 810.0 | 768.4 | 728.1 | 726.8 | 720.3 |
| 10°   | 851.6  | 871.1  | 888.0 | 877.6 | 825.6 | 734.6 | 660.4 | 604.5 | 553.8 | 530.4 | 533.0 |
| 12.5° | 867.2  | 903.6  | 895.8 | 842.5 | 734.6 | 614.9 | 505.7 | 423.8 | 378.3 | 335.4 | 335.4 |
| 15°   | 899.7  | 912.7  | 910.1 | 791.8 | 622.7 | 479.7 | 347.1 | 263.9 | 215.8 | 196.3 | 193.7 |
| 17.5° | 930.9  | 945.2  | 901.0 | 715.1 | 512.2 | 322.4 | 210.6 | 163.8 | 157.3 | 154.7 | 156.0 |
| 20°   | 969.9  | 971.2  | 893.2 | 638.3 | 384.8 | 204.1 | 150.8 | 146.9 | 148.2 | 146.9 | 146.9 |
| 22.5° | 1011.5 | 1020.6 | 865.9 | 530.4 | 256.1 | 148.2 | 140.4 | 141.7 | 141.7 | 141.7 | 145.6 |
| 25°   | 1066.1 | 1051.8 | 823.0 | 427.7 | 167.7 | 136.5 | 136.5 | 137.8 | 137.8 | 137.8 | 139.1 |
| 27.5° | 1102.5 | 1083.0 | 768.4 | 308.1 | 131.3 | 128.7 | 131.3 | 131.3 | 133.9 | 133.9 | 133.9 |
| 30°   | 1177.9 | 1127.2 | 699.4 | 198.9 | 118.3 | 122.2 | 124.8 | 127.4 | 128.7 | 131.3 | 132.6 |
| 32.5° | 1236.4 | 1166.2 | 613.6 | 132.6 | 107.9 | 110.5 | 117.0 | 122.2 | 127.4 | 126.1 | 126.1 |
| 35°   | 1343.0 | 1229.9 | 534.3 | 105.3 | 98.8  | 98.8  | 105.3 | 114.4 | 122.2 | 124.8 | 124.8 |
| 37.5° | 1465.2 | 1281.9 | 423.8 | 96.2  | 91.0  | 91.0  | 94.9  | 105.3 | 115.7 | 120.9 | 118.3 |
| 40°   | 1566.6 | 1341.7 | 313.3 | 89.7  | 84.5  | 84.5  | 87.1  | 94.9  | 106.6 | 115.7 | 117.0 |
| 42.5° | 1638.1 | 1385.9 | 211.9 | 83.2  | 79.3  | 78.0  | 81.9  | 85.8  | 94.9  | 107.9 | 110.5 |
| 45°   | 1703.1 | 1409.3 | 131.3 | 76.7  | 74.1  | 74.1  | 74.1  | 78.0  | 84.5  | 96.2  | 98.8  |
| 47.5° | 1818.8 | 1435.3 | 94.9  | 71.5  | 67.6  | 68.9  | 70.2  | 71.5  | 76.7  | 79.3  | 80.6  |
| 50°   | 1916.3 | 1454.8 | 78.0  | 66.3  | 63.7  | 65.0  | 65.0  | 65.0  | 67.6  | 63.7  | 63.7  |
| 52.5° | 1990.4 | 1435.3 | 66.3  | 61.1  | 58.5  | 59.8  | 58.5  | 58.5  | 55.9  | 50.7  | 50.7  |
| 55°   | 2045.0 | 1400.2 | 53.3  | 55.9  | 55.9  | 55.9  | 53.3  | 49.4  | 44.2  | 40.3  | 40.3  |
| 57.5° | 2059.3 | 1340.4 | 41.6  | 46.8  | 50.7  | 50.7  | 45.5  | 40.3  | 33.8  | 29.9  | 28.6  |
| 60°   | 2037.2 | 1210.4 | 31.2  | 33.8  | 39.0  | 40.3  | 36.4  | 29.9  | 23.4  | 19.5  | 19.5  |
| 62.5° | 1957.9 | 1107.7 | 24.7  | 22.1  | 28.6  | 29.9  | 26.0  | 19.5  | 13.0  | 9.1   | 7.8   |
| 65°   | 1807.1 | 949.1  | 18.2  | 15.6  | 19.5  | 20.8  | 16.9  | 9.1   | 3.9   | 1.3   | 0.0   |
| 67.5° | 1449.6 | 715.1  | 11.7  | 10.4  | 13.0  | 13.0  | 7.8   | 2.6   | 0.0   | 0.0   | 0.0   |
| 70°   | 802.2  | 401.7  | 7.8   | 5.2   | 6.5   | 3.9   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 231.4  | 114.4  | 3.9   | 2.6   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 62.4   | 27.3   | 2.6   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 27.3   | 10.4   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 11.7   | 3.9    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 6.5    | 1.3    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 2.6    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.3    | 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)