

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: P675028

Luminaire Tested: **CCW-SA-2A-830-U-T3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675028
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-830-U-T3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T3 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4392.8 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

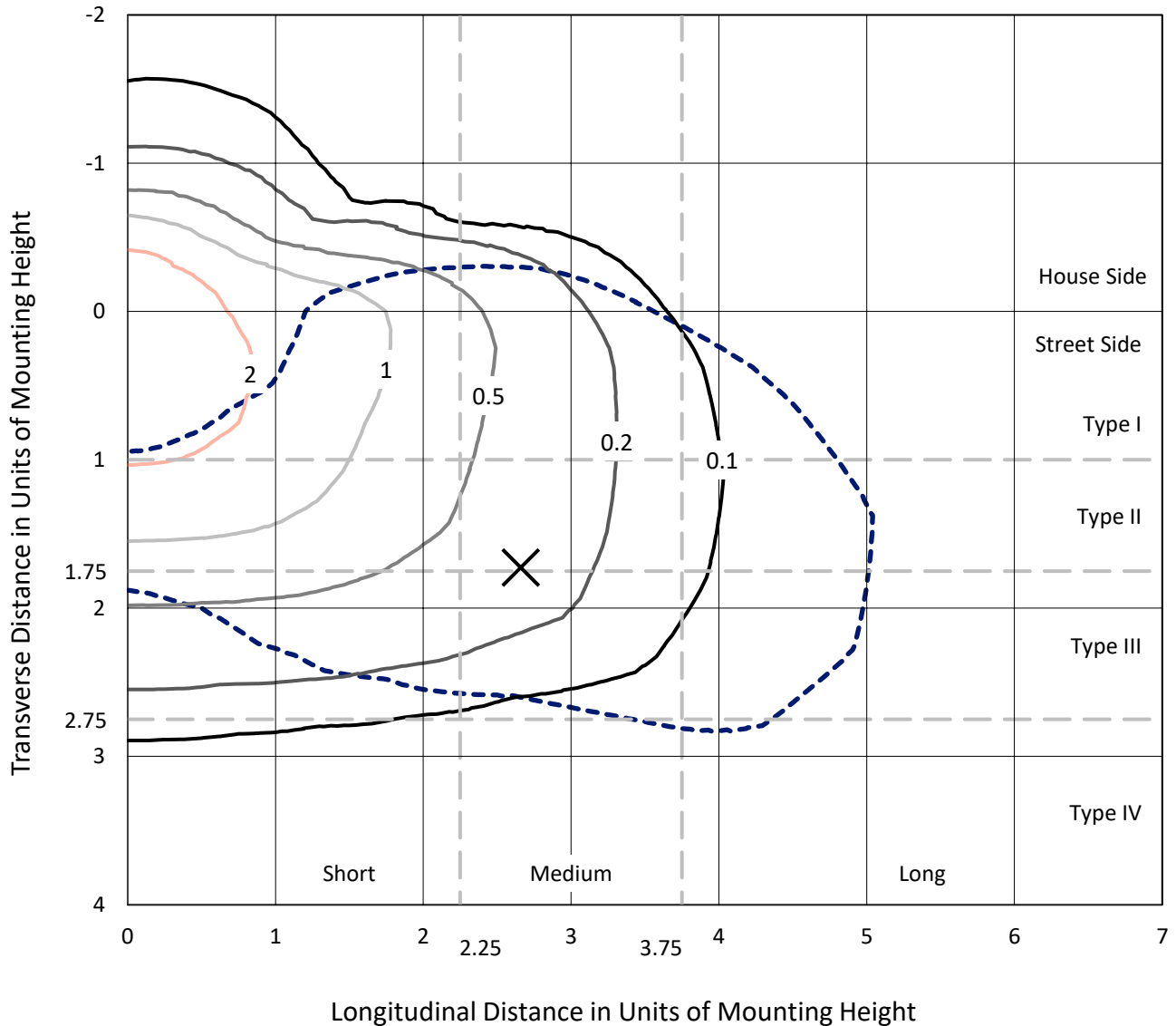
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P675028
 CATALOG NUMBER: CCW-SA-2A-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

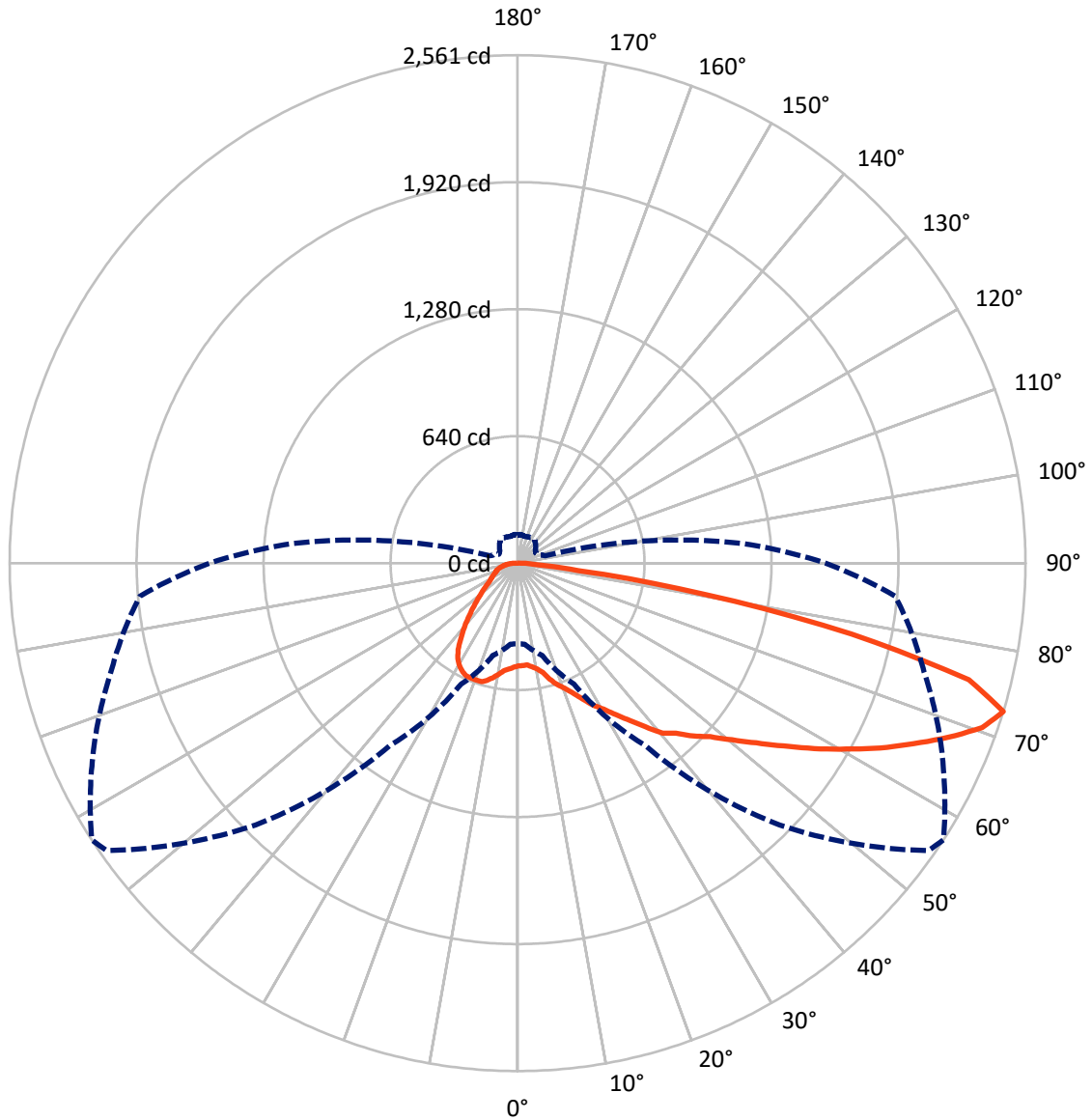
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P675028
CATALOG NUMBER: CCW-SA-2A-830-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



REPORT NUMBER: P675028
 CATALOG NUMBER: CCW-SA-2A-830-U-T3

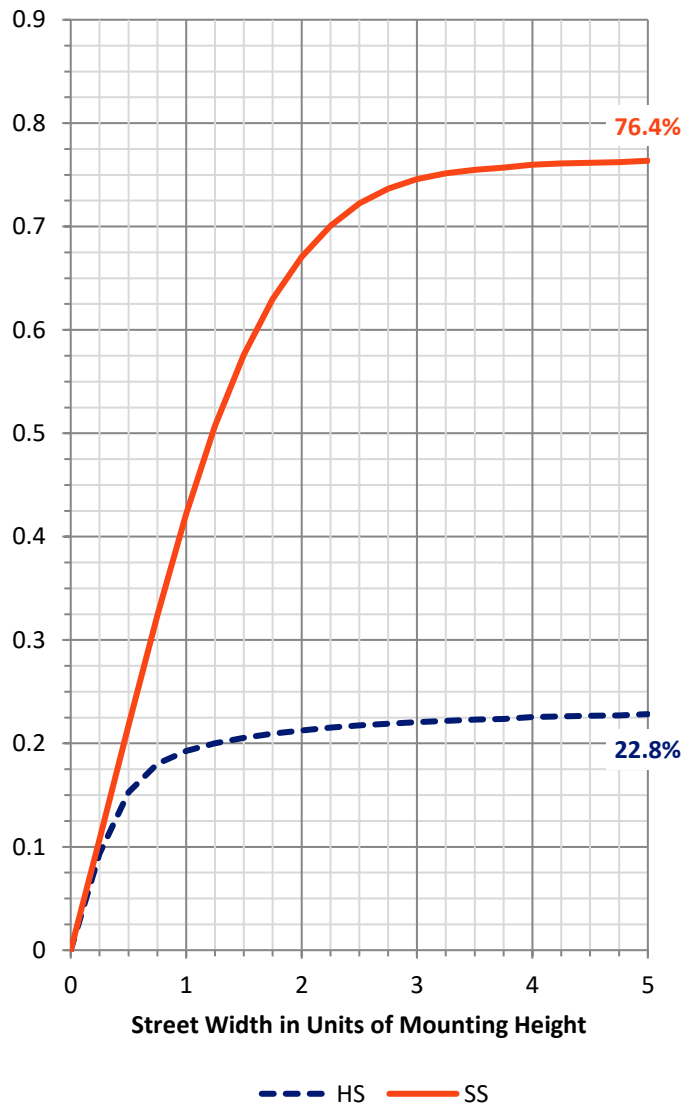
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1025.8 | 0.0 | 1025.8 |
| | % Fixture | 23.4 | 0.0 | 23.4 |
| Street Side | Lumens | 3367.0 | 0.0 | 3367.0 |
| | % Fixture | 76.6 | 0.0 | 76.6 |
| Total | Lumens | 4392.8 | 0.0 | 4392.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.5 | 1.2 |
| 10°-20° | 173.5 | 3.9 |
| 20°-30° | 317.1 | 7.2 |
| 30°-40° | 465.2 | 10.6 |
| 40°-50° | 640.5 | 14.6 |
| 50°-60° | 878.3 | 20.0 |
| 60°-70° | 1058.8 | 24.1 |
| 70°-80° | 705.3 | 16.1 |
| 80°-90° | 102.7 | 2.3 |
| 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° | 4392.8 | 100.0 |
| 0°-180° | 4392.8 | 100.0 |



REPORT NUMBER: P675028

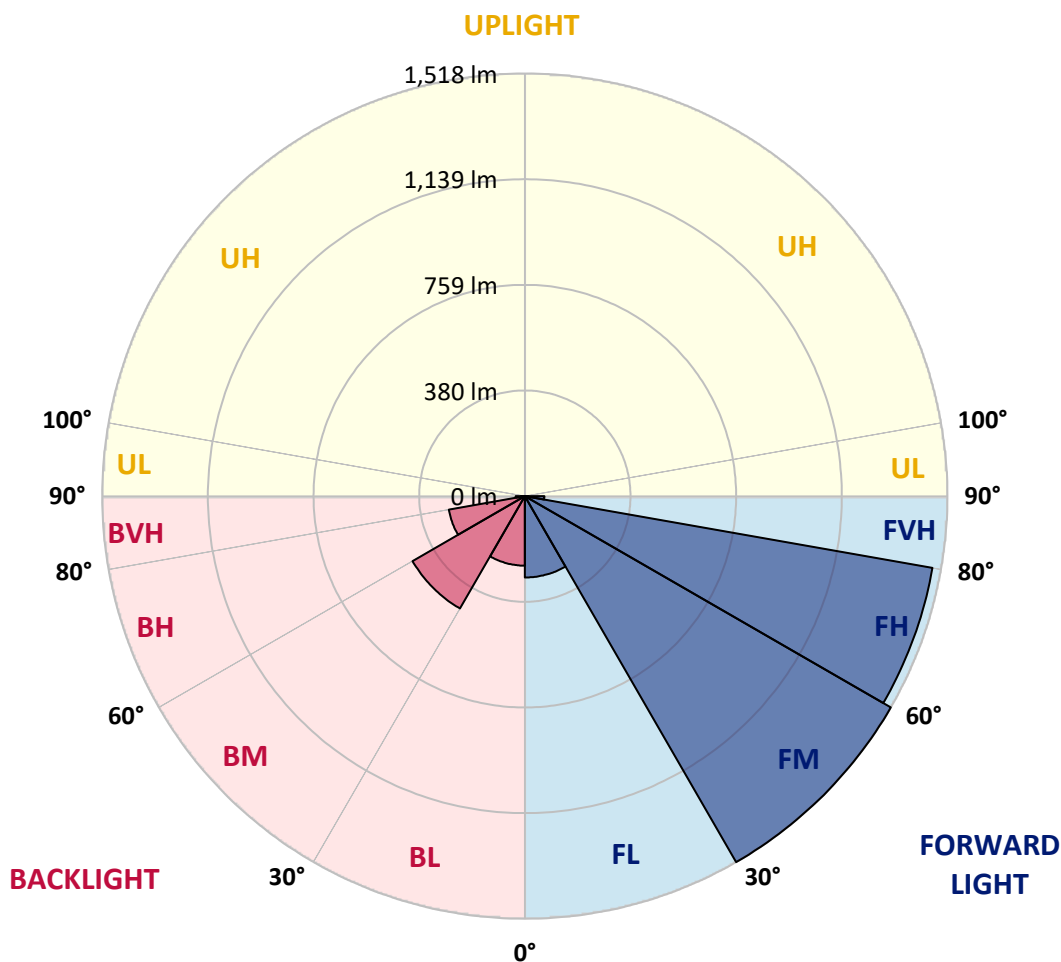
CATALOG NUMBER: CCW-SA-2A-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 292.2 | 6.7 | | | |
| FM (30°-60°) | 1518.1 | 34.6 | | | |
| FH (60°-80°) | 1486.7 | 33.8 | | | G1/1800 |
| FVH (80°-90°) | 69.9 | 1.6 | | | G1/100 |
| BL (0°-30°) | 249.8 | 5.7 | B1/500 | | |
| BM (30°-60°) | 466.0 | 10.6 | B1/1000 | | |
| BH (60°-80°) | 277.4 | 6.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 32.8 | 0.7 | | | 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 III Medium





REPORT NUMBER: P675028

CATALOG NUMBER: CCW-SA-2A-830-U-T3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 |
| 2.5° | 508.9 | 510.5 | 513.7 | 512.1 | 512.1 | 507.3 | 515.3 | 516.9 | 513.7 | 515.3 | 518.5 |
| 5° | 508.9 | 512.1 | 516.9 | 513.7 | 515.3 | 513.7 | 510.5 | 515.3 | 515.3 | 516.9 | 521.7 |
| 7.5° | 536.1 | 534.5 | 534.5 | 529.7 | 528.1 | 526.5 | 528.1 | 528.1 | 524.9 | 526.5 | 526.5 |
| 10° | 566.5 | 566.5 | 563.3 | 563.3 | 560.1 | 552.1 | 544.1 | 542.5 | 537.7 | 539.3 | 539.3 |
| 12.5° | 598.5 | 601.7 | 604.9 | 595.3 | 592.1 | 579.3 | 574.5 | 564.9 | 564.9 | 561.7 | 560.1 |
| 15° | 638.5 | 633.7 | 636.9 | 633.7 | 625.7 | 612.9 | 604.9 | 606.5 | 595.3 | 592.1 | 587.3 |
| 17.5° | 673.7 | 675.3 | 670.5 | 667.3 | 652.9 | 643.3 | 644.9 | 643.3 | 628.9 | 624.1 | 616.1 |
| 20° | 715.3 | 713.7 | 713.7 | 704.1 | 691.3 | 678.5 | 673.7 | 672.1 | 675.3 | 665.7 | 646.5 |
| 22.5° | 758.6 | 752.1 | 752.1 | 744.1 | 726.5 | 718.5 | 715.3 | 708.9 | 712.1 | 704.1 | 675.3 |
| 25° | 793.8 | 793.8 | 805.0 | 789.0 | 779.4 | 763.4 | 757.0 | 758.6 | 760.2 | 744.1 | 710.5 |
| 27.5° | 840.2 | 832.2 | 843.4 | 835.4 | 830.6 | 813.0 | 805.0 | 809.8 | 806.6 | 789.0 | 742.5 |
| 30° | 899.4 | 901.0 | 894.6 | 883.4 | 877.0 | 864.2 | 859.4 | 854.6 | 859.4 | 837.0 | 777.8 |
| 32.5° | 973.0 | 977.8 | 961.8 | 949.0 | 937.8 | 925.0 | 915.4 | 910.6 | 915.4 | 881.8 | 805.0 |
| 35° | 1057.8 | 1062.6 | 1049.8 | 1035.4 | 1022.6 | 990.6 | 982.6 | 974.6 | 957.0 | 902.6 | 830.6 |
| 37.5° | 1136.2 | 1129.8 | 1126.6 | 1126.6 | 1102.6 | 1056.2 | 1051.4 | 1046.6 | 1013.0 | 944.2 | 865.8 |
| 40° | 1189.0 | 1197.0 | 1193.8 | 1190.6 | 1187.4 | 1144.2 | 1134.6 | 1126.6 | 1070.6 | 1006.6 | 915.4 |
| 42.5° | 1248.2 | 1243.4 | 1256.2 | 1261.1 | 1249.8 | 1237.0 | 1198.6 | 1171.4 | 1121.8 | 1070.6 | 989.0 |
| 45° | 1318.7 | 1315.5 | 1320.3 | 1337.9 | 1321.9 | 1326.7 | 1262.7 | 1243.4 | 1181.0 | 1150.6 | 1081.8 |
| 47.5° | 1381.1 | 1389.1 | 1413.1 | 1417.9 | 1405.1 | 1427.5 | 1337.9 | 1307.5 | 1267.5 | 1243.4 | 1177.8 |
| 50° | 1408.3 | 1417.9 | 1472.3 | 1505.9 | 1507.5 | 1542.7 | 1413.1 | 1400.3 | 1345.9 | 1355.5 | 1297.9 |
| 52.5° | 1385.9 | 1416.3 | 1481.9 | 1569.9 | 1624.3 | 1659.5 | 1512.3 | 1505.9 | 1456.3 | 1486.7 | 1429.1 |
| 55° | 1406.7 | 1435.5 | 1478.7 | 1601.9 | 1739.5 | 1747.5 | 1649.9 | 1625.9 | 1576.3 | 1617.9 | 1565.1 |
| 57.5° | 1416.3 | 1400.3 | 1481.9 | 1637.1 | 1824.4 | 1845.2 | 1781.2 | 1763.6 | 1725.1 | 1765.2 | 1734.7 |
| 60° | 1341.1 | 1360.3 | 1437.1 | 1627.5 | 1829.2 | 1949.2 | 1928.4 | 1902.8 | 1867.6 | 1904.4 | 1886.8 |
| 62.5° | 1256.2 | 1269.1 | 1352.3 | 1569.9 | 1856.4 | 2024.4 | 2070.8 | 2051.6 | 2002.0 | 2034.0 | 2064.4 |
| 65° | 1149.0 | 1150.6 | 1243.4 | 1467.5 | 1803.6 | 2067.6 | 2195.6 | 2194.0 | 2158.8 | 2150.8 | 2198.8 |
| 67.5° | 1017.8 | 1030.6 | 1104.2 | 1358.7 | 1731.5 | 2115.6 | 2318.9 | 2342.9 | 2272.5 | 2210.0 | 2227.6 |
| 70° | 781.0 | 793.8 | 864.2 | 1113.8 | 1584.3 | 2101.2 | 2470.9 | 2483.7 | 2346.1 | 2187.6 | 2142.8 |
| 72.5° | 406.5 | 409.7 | 481.7 | 672.1 | 1123.4 | 1866.0 | 2526.9 | 2560.5 | 2365.3 | 2122.0 | 1910.8 |
| 75° | 134.4 | 134.4 | 164.8 | 256.1 | 529.7 | 1193.8 | 2288.5 | 2349.3 | 2270.9 | 1958.8 | 1563.5 |
| 77.5° | 80.0 | 81.6 | 97.6 | 128.0 | 211.2 | 476.9 | 1613.1 | 1720.3 | 1858.0 | 1665.9 | 1142.6 |
| 80° | 57.6 | 59.2 | 73.6 | 88.0 | 126.4 | 153.6 | 809.8 | 958.6 | 1141.0 | 1072.2 | 609.7 |
| 82.5° | 43.2 | 43.2 | 57.6 | 65.6 | 86.4 | 91.2 | 225.6 | 308.9 | 492.9 | 384.1 | 168.0 |
| 85° | 44.8 | 44.8 | 44.8 | 46.4 | 59.2 | 52.8 | 94.4 | 100.8 | 144.0 | 126.4 | 46.4 |
| 87.5° | 16.0 | 17.6 | 44.8 | 30.4 | 30.4 | 22.4 | 36.8 | 40.0 | 51.2 | 52.8 | 17.6 |
| 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: P675028
 CATALOG NUMBER: CCW-SA-2A-830-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 |
| 2.5° | 520.1 | 520.1 | 521.7 | 521.7 | 524.9 | 528.1 | 532.9 | 529.7 | 529.7 | 531.3 | 529.7 |
| 5° | 518.5 | 520.1 | 524.9 | 532.9 | 536.1 | 537.7 | 547.3 | 547.3 | 547.3 | 550.5 | 550.5 |
| 7.5° | 524.9 | 528.1 | 536.1 | 544.1 | 545.7 | 550.5 | 563.3 | 566.5 | 574.5 | 577.7 | 579.3 |
| 10° | 540.9 | 545.7 | 552.1 | 561.7 | 568.1 | 574.5 | 584.1 | 595.3 | 593.7 | 603.3 | 604.9 |
| 12.5° | 564.9 | 563.3 | 574.5 | 584.1 | 590.5 | 600.1 | 603.3 | 603.3 | 603.3 | 603.3 | 606.5 |
| 15° | 584.1 | 587.3 | 596.9 | 603.3 | 611.3 | 609.7 | 603.3 | 596.9 | 598.5 | 596.9 | 596.9 |
| 17.5° | 612.9 | 612.9 | 620.9 | 622.5 | 625.7 | 609.7 | 600.1 | 600.1 | 604.9 | 604.9 | 601.7 |
| 20° | 641.7 | 640.1 | 643.3 | 641.7 | 620.9 | 601.7 | 600.1 | 601.7 | 603.3 | 601.7 | 600.1 |
| 22.5° | 668.9 | 665.7 | 660.9 | 654.5 | 617.7 | 600.1 | 596.9 | 588.9 | 580.9 | 580.9 | 576.1 |
| 25° | 692.9 | 689.7 | 676.9 | 657.7 | 616.1 | 590.5 | 574.5 | 555.3 | 545.7 | 540.9 | 547.3 |
| 27.5° | 715.3 | 708.9 | 691.3 | 657.7 | 601.7 | 564.9 | 534.5 | 510.5 | 502.5 | 496.1 | 502.5 |
| 30° | 745.7 | 734.5 | 710.5 | 652.9 | 579.3 | 524.9 | 483.3 | 454.5 | 446.5 | 436.9 | 440.1 |
| 32.5° | 773.0 | 747.3 | 726.5 | 638.5 | 550.5 | 480.1 | 432.1 | 403.3 | 388.9 | 380.9 | 387.3 |
| 35° | 801.8 | 776.2 | 732.9 | 616.1 | 505.7 | 425.7 | 377.7 | 350.5 | 339.3 | 328.1 | 328.1 |
| 37.5° | 830.6 | 816.2 | 742.5 | 574.5 | 451.3 | 374.5 | 331.3 | 310.5 | 291.3 | 270.5 | 270.5 |
| 40° | 891.4 | 872.2 | 753.7 | 526.5 | 396.9 | 324.9 | 294.5 | 267.3 | 248.0 | 219.2 | 217.6 |
| 42.5° | 955.4 | 913.8 | 753.7 | 468.9 | 348.9 | 289.7 | 260.9 | 232.0 | 196.8 | 179.2 | 180.8 |
| 45° | 1037.0 | 989.0 | 732.9 | 417.7 | 300.9 | 260.9 | 228.8 | 192.0 | 176.0 | 164.8 | 164.8 |
| 47.5° | 1139.4 | 1064.2 | 707.3 | 361.7 | 262.5 | 235.2 | 195.2 | 172.8 | 161.6 | 152.0 | 150.4 |
| 50° | 1261.1 | 1133.0 | 675.3 | 313.7 | 230.4 | 211.2 | 177.6 | 160.0 | 150.4 | 144.0 | 144.0 |
| 52.5° | 1389.1 | 1233.8 | 652.9 | 270.5 | 204.8 | 179.2 | 164.8 | 153.6 | 145.6 | 140.8 | 139.2 |
| 55° | 1518.7 | 1334.7 | 636.9 | 224.0 | 180.8 | 164.8 | 161.6 | 152.0 | 148.8 | 144.0 | 140.8 |
| 57.5° | 1664.3 | 1417.9 | 633.7 | 192.0 | 161.6 | 158.4 | 164.8 | 156.8 | 152.0 | 147.2 | 142.4 |
| 60° | 1821.2 | 1529.9 | 604.9 | 166.4 | 152.0 | 155.2 | 160.0 | 152.0 | 148.8 | 144.0 | 140.8 |
| 62.5° | 1976.4 | 1613.1 | 526.5 | 147.2 | 142.4 | 145.6 | 152.0 | 145.6 | 140.8 | 142.4 | 144.0 |
| 65° | 2040.4 | 1619.5 | 408.1 | 132.8 | 131.2 | 132.8 | 142.4 | 140.8 | 136.0 | 145.6 | 145.6 |
| 67.5° | 1976.4 | 1561.9 | 288.1 | 120.0 | 120.0 | 128.0 | 144.0 | 147.2 | 142.4 | 155.2 | 153.6 |
| 70° | 1830.8 | 1419.5 | 195.2 | 112.0 | 115.2 | 136.0 | 148.8 | 145.6 | 139.2 | 155.2 | 152.0 |
| 72.5° | 1553.9 | 1136.2 | 142.4 | 104.0 | 108.8 | 129.6 | 147.2 | 144.0 | 139.2 | 145.6 | 139.2 |
| 75° | 1166.6 | 808.2 | 112.0 | 94.4 | 96.0 | 116.8 | 152.0 | 144.0 | 131.2 | 128.0 | 123.2 |
| 77.5° | 779.4 | 499.3 | 86.4 | 83.2 | 83.2 | 102.4 | 145.6 | 134.4 | 118.4 | 113.6 | 112.0 |
| 80° | 371.3 | 200.0 | 68.8 | 70.4 | 72.0 | 88.0 | 132.8 | 120.0 | 107.2 | 100.8 | 100.8 |
| 82.5° | 118.4 | 75.2 | 57.6 | 57.6 | 57.6 | 72.0 | 110.4 | 100.8 | 92.8 | 88.0 | 80.0 |
| 85° | 41.6 | 41.6 | 49.6 | 51.2 | 46.4 | 52.8 | 91.2 | 86.4 | 76.8 | 64.0 | 62.4 |
| 87.5° | 16.0 | 24.0 | 33.6 | 40.0 | 28.8 | 36.8 | 65.6 | 60.8 | 56.0 | 41.6 | 40.0 |
| 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)