

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: P676720

Luminaire Tested: **CCW-SA-1D-750-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676720
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-750-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

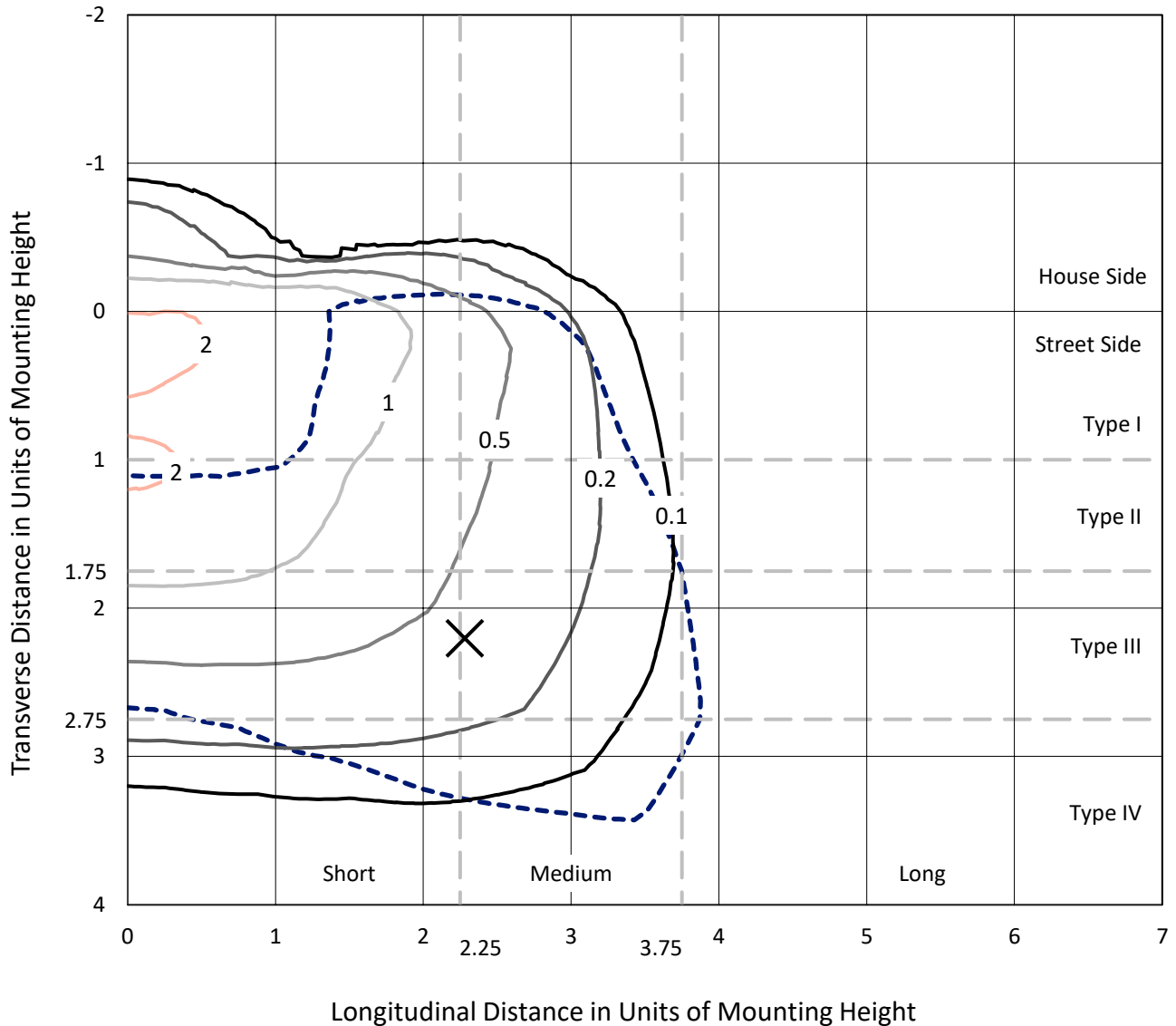
Lumens per Lamp: N/A
Luminaire Lumens: 4115.7 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

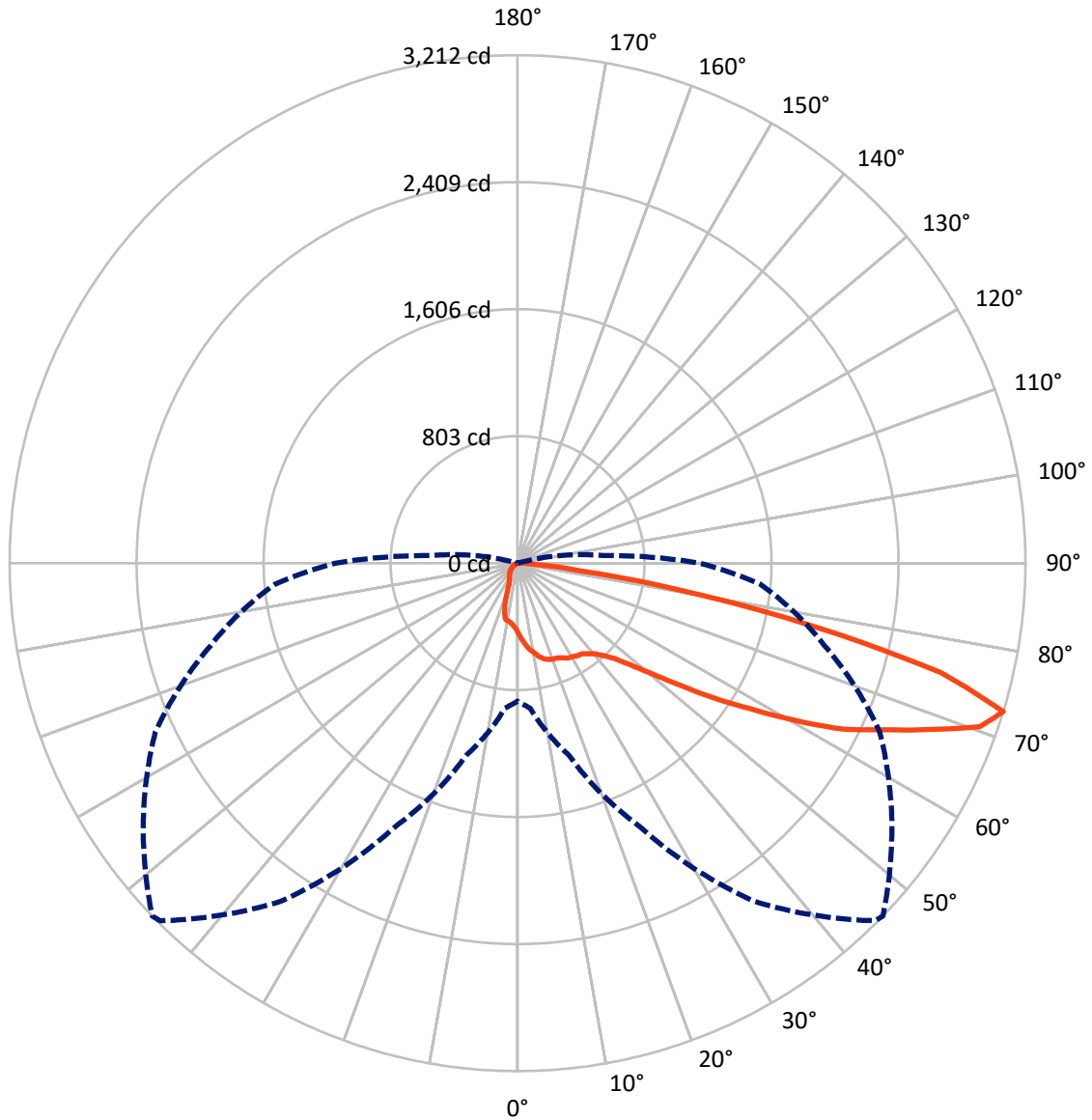
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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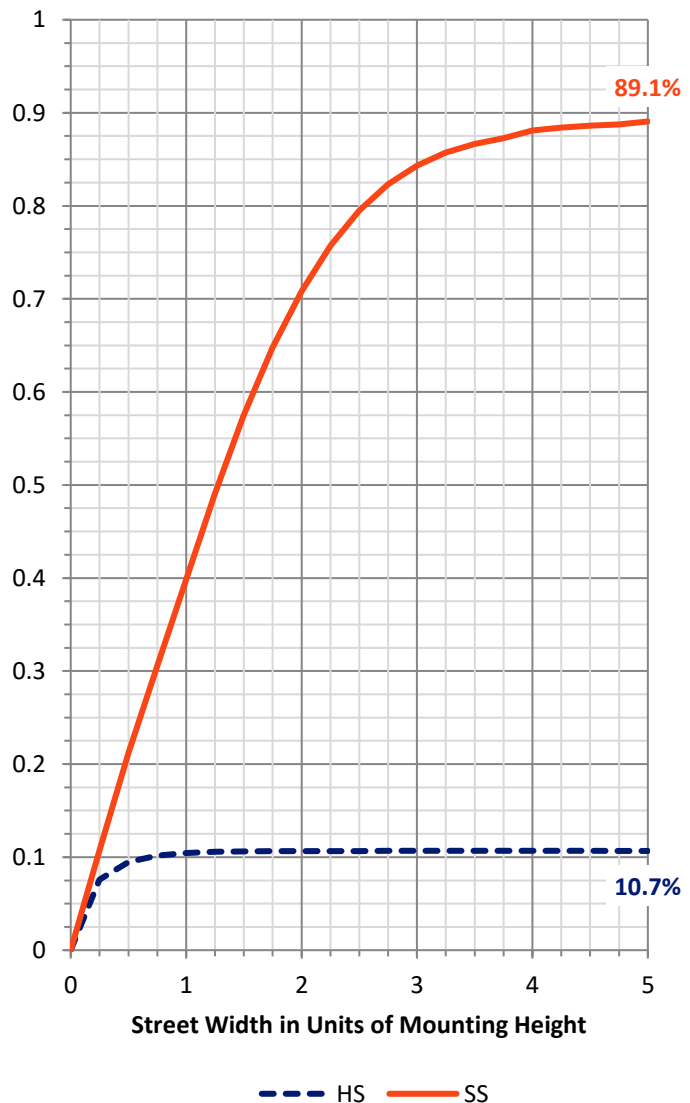
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 443.1 | 0.0 | 443.1 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 3672.6 | 0.0 | 3672.6 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 4115.7 | 0.0 | 4115.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.0 | 1.1 |
| 10°-20° | 132.9 | 3.2 |
| 20°-30° | 208.1 | 5.1 |
| 30°-40° | 291.4 | 7.1 |
| 40°-50° | 480.5 | 11.7 |
| 50°-60° | 863.7 | 21.0 |
| 60°-70° | 1251.8 | 30.4 |
| 70°-80° | 781.3 | 19.0 |
| 80°-90° | 61.9 | 1.5 |
| 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° | 4115.7 | 100.0 |
| 0°-180° | 4115.7 | 100.0 |



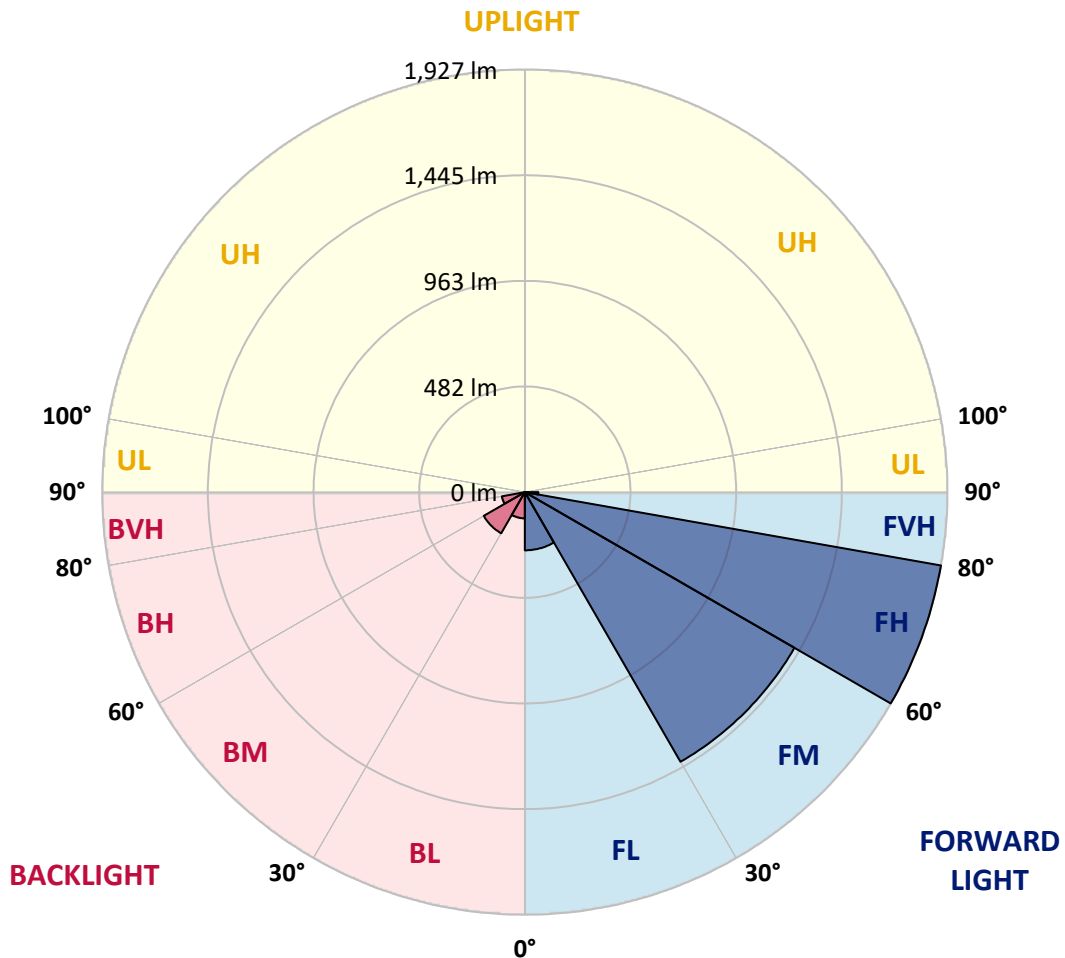
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 265.3 | 6.4 | | | |
| FM (30°-60°) | 1419.2 | 34.5 | | | |
| FH (60°-80°) | 1926.6 | 46.8 | | | G2/5000 |
| FVH (80°-90°) | 61.6 | 1.5 | | | G1/100 |
| BL (0°-30°) | 119.7 | 2.9 | B1/500 | | |
| BM (30°-60°) | 216.4 | 5.3 | B0/220 | | |
| BH (60°-80°) | 106.5 | 2.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 439.9 | 439.9 | 439.9 | 439.9 | 439.9 | 439.9 | 439.9 | 439.9 | 439.9 | 439.9 | 439.9 |
| 2.5° | 492.4 | 490.3 | 493.4 | 492.4 | 479.8 | 481.9 | 480.8 | 472.4 | 457.7 | 449.3 | 444.1 |
| 5° | 549.1 | 554.3 | 550.1 | 540.7 | 533.3 | 518.6 | 516.5 | 502.9 | 479.8 | 465.1 | 449.3 |
| 7.5° | 607.8 | 607.8 | 599.4 | 584.7 | 569.0 | 553.3 | 551.2 | 528.1 | 508.1 | 482.9 | 460.9 |
| 10° | 651.9 | 646.7 | 640.4 | 624.6 | 606.8 | 585.8 | 575.3 | 558.5 | 536.5 | 506.0 | 477.7 |
| 12.5° | 690.8 | 682.4 | 671.9 | 648.8 | 627.8 | 604.7 | 606.8 | 579.5 | 564.8 | 537.5 | 495.5 |
| 15° | 712.8 | 705.5 | 696.0 | 675.0 | 642.5 | 632.0 | 627.8 | 611.0 | 584.7 | 557.5 | 517.6 |
| 17.5° | 718.1 | 712.8 | 700.2 | 672.9 | 655.1 | 642.5 | 641.4 | 621.5 | 609.9 | 586.8 | 542.8 |
| 20° | 707.6 | 698.1 | 688.7 | 670.8 | 654.0 | 649.8 | 646.7 | 646.7 | 632.0 | 601.5 | 558.5 |
| 22.5° | 689.7 | 679.2 | 674.0 | 663.5 | 649.8 | 648.8 | 650.9 | 648.8 | 637.2 | 617.3 | 575.3 |
| 25° | 676.1 | 670.8 | 662.4 | 659.3 | 650.9 | 666.6 | 663.5 | 660.3 | 657.2 | 634.1 | 601.5 |
| 27.5° | 680.3 | 679.2 | 672.9 | 660.3 | 654.0 | 670.8 | 680.3 | 681.3 | 680.3 | 657.2 | 625.7 |
| 30° | 682.4 | 677.1 | 670.8 | 667.7 | 669.8 | 686.6 | 686.6 | 709.7 | 700.2 | 677.1 | 649.8 |
| 32.5° | 706.5 | 703.4 | 682.4 | 675.0 | 676.1 | 696.0 | 697.1 | 720.2 | 717.0 | 701.3 | 670.8 |
| 35° | 758.0 | 737.0 | 706.5 | 685.5 | 685.5 | 711.8 | 703.4 | 737.0 | 745.4 | 720.2 | 685.5 |
| 37.5° | 834.6 | 818.9 | 764.3 | 717.0 | 699.2 | 718.1 | 726.5 | 745.4 | 770.6 | 748.5 | 714.9 |
| 40° | 986.8 | 983.7 | 906.0 | 804.2 | 733.8 | 750.6 | 753.8 | 783.2 | 800.0 | 769.5 | 760.1 |
| 42.5° | 1209.4 | 1193.6 | 1121.2 | 960.6 | 796.8 | 789.5 | 801.0 | 819.9 | 859.8 | 834.6 | 811.5 |
| 45° | 1426.7 | 1419.4 | 1346.9 | 1167.4 | 911.2 | 867.2 | 860.9 | 894.4 | 953.2 | 925.9 | 908.1 |
| 47.5° | 1584.2 | 1569.5 | 1528.5 | 1377.4 | 1079.2 | 958.5 | 962.7 | 996.3 | 1070.8 | 1049.8 | 1055.1 |
| 50° | 1704.9 | 1697.6 | 1654.5 | 1571.6 | 1291.3 | 1102.3 | 1093.9 | 1127.5 | 1228.3 | 1241.9 | 1256.6 |
| 52.5° | 1837.2 | 1850.8 | 1793.1 | 1722.8 | 1542.2 | 1295.5 | 1276.6 | 1288.1 | 1418.3 | 1449.8 | 1490.7 |
| 55° | 1964.2 | 1986.3 | 1928.5 | 1919.1 | 1804.6 | 1509.6 | 1506.5 | 1479.2 | 1647.2 | 1651.4 | 1673.4 |
| 57.5° | 2047.1 | 2039.8 | 2035.6 | 2087.0 | 2067.1 | 1755.3 | 1739.6 | 1712.3 | 1864.5 | 1837.2 | 1903.3 |
| 60° | 2053.4 | 2074.4 | 2144.8 | 2271.8 | 2307.5 | 2044.0 | 2020.9 | 1946.4 | 2052.4 | 1987.3 | 2113.3 |
| 62.5° | 2100.7 | 2117.5 | 2247.7 | 2423.0 | 2469.2 | 2298.1 | 2313.8 | 2124.8 | 2213.0 | 2161.6 | 2346.3 |
| 65° | 1981.0 | 2033.5 | 2294.9 | 2540.6 | 2681.2 | 2555.3 | 2539.5 | 2354.7 | 2377.8 | 2329.5 | 2576.3 |
| 67.5° | 1872.9 | 1892.8 | 2165.8 | 2576.3 | 2849.2 | 2813.5 | 2807.2 | 2558.4 | 2547.9 | 2458.7 | 2641.3 |
| 70° | 1522.2 | 1546.4 | 1816.2 | 2393.6 | 2905.9 | 3114.8 | 3100.1 | 2844.0 | 2663.4 | 2388.3 | 2307.5 |
| 72.5° | 872.4 | 920.7 | 1258.7 | 1843.5 | 2610.9 | 3198.8 | 3212.4 | 2890.2 | 2526.9 | 2008.3 | 1541.1 |
| 75° | 285.6 | 299.2 | 522.8 | 1044.6 | 1952.7 | 2790.4 | 2766.3 | 2483.9 | 2038.7 | 1325.9 | 696.0 |
| 77.5° | 96.6 | 98.7 | 154.3 | 377.9 | 1082.4 | 1885.5 | 1899.1 | 1775.2 | 1252.4 | 551.2 | 192.1 |
| 80° | 49.3 | 52.5 | 75.6 | 141.7 | 445.1 | 1026.7 | 1048.8 | 1012.0 | 524.9 | 162.7 | 46.2 |
| 82.5° | 23.1 | 24.1 | 44.1 | 78.7 | 203.7 | 403.1 | 403.1 | 443.0 | 185.8 | 91.3 | 18.9 |
| 85° | 8.4 | 8.4 | 23.1 | 45.1 | 86.1 | 134.4 | 135.4 | 136.5 | 97.6 | 68.2 | 8.4 |
| 87.5° | 3.1 | 3.1 | 11.5 | 18.9 | 31.5 | 40.9 | 40.9 | 32.5 | 49.3 | 45.1 | 3.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 439.9 | 439.9 | 439.9 | 439.9 | 439.9 | 439.9 | 439.9 | 439.9 | 439.9 | 439.9 | 439.9 |
| 2.5° | 442.0 | 435.7 | 430.4 | 423.1 | 413.6 | 408.4 | 409.4 | 403.1 | 403.1 | 400.0 | 398.9 |
| 5° | 442.0 | 435.7 | 422.0 | 409.4 | 401.0 | 390.5 | 385.3 | 381.1 | 381.1 | 379.0 | 380.0 |
| 7.5° | 445.1 | 435.7 | 416.8 | 400.0 | 386.3 | 375.8 | 367.4 | 366.4 | 364.3 | 359.0 | 363.2 |
| 10° | 464.0 | 450.4 | 418.9 | 395.8 | 380.0 | 368.5 | 353.8 | 349.6 | 343.3 | 333.8 | 334.9 |
| 12.5° | 479.8 | 461.9 | 433.6 | 402.1 | 382.1 | 363.2 | 329.6 | 292.9 | 277.2 | 260.4 | 261.4 |
| 15° | 502.9 | 477.7 | 438.8 | 410.5 | 382.1 | 321.2 | 260.4 | 213.1 | 187.9 | 175.3 | 175.3 |
| 17.5° | 515.5 | 494.5 | 453.5 | 415.7 | 351.7 | 261.4 | 184.8 | 143.8 | 139.6 | 141.7 | 141.7 |
| 20° | 541.7 | 513.4 | 470.3 | 419.9 | 301.3 | 185.8 | 135.4 | 131.2 | 133.3 | 137.5 | 136.5 |
| 22.5° | 558.5 | 530.2 | 482.9 | 401.0 | 233.1 | 133.3 | 127.0 | 124.9 | 127.0 | 132.3 | 132.3 |
| 25° | 572.2 | 554.3 | 502.9 | 354.8 | 164.8 | 120.7 | 118.6 | 120.7 | 122.8 | 124.9 | 128.1 |
| 27.5° | 605.7 | 575.3 | 516.5 | 295.0 | 118.6 | 112.3 | 114.4 | 115.5 | 115.5 | 118.6 | 119.7 |
| 30° | 627.8 | 603.6 | 527.0 | 227.8 | 105.0 | 103.9 | 106.0 | 107.1 | 108.1 | 111.3 | 112.3 |
| 32.5° | 648.8 | 640.4 | 513.4 | 154.3 | 98.7 | 96.6 | 95.5 | 96.6 | 100.8 | 103.9 | 102.9 |
| 35° | 679.2 | 674.0 | 493.4 | 107.1 | 92.4 | 88.2 | 86.1 | 87.1 | 90.3 | 93.4 | 92.4 |
| 37.5° | 716.0 | 721.2 | 445.1 | 93.4 | 86.1 | 80.8 | 76.6 | 76.6 | 77.7 | 80.8 | 81.9 |
| 40° | 759.0 | 772.7 | 388.4 | 87.1 | 81.9 | 75.6 | 71.4 | 66.1 | 65.1 | 64.0 | 65.1 |
| 42.5° | 837.8 | 853.5 | 324.4 | 82.9 | 75.6 | 68.2 | 61.9 | 55.6 | 50.4 | 47.2 | 47.2 |
| 45° | 948.0 | 935.4 | 240.4 | 78.7 | 72.4 | 61.9 | 52.5 | 45.1 | 37.8 | 34.6 | 34.6 |
| 47.5° | 1100.2 | 1057.2 | 164.8 | 74.5 | 67.2 | 54.6 | 44.1 | 34.6 | 28.3 | 25.2 | 25.2 |
| 50° | 1311.2 | 1169.5 | 107.1 | 70.3 | 64.0 | 47.2 | 35.7 | 25.2 | 21.0 | 19.9 | 21.0 |
| 52.5° | 1510.7 | 1283.9 | 85.0 | 65.1 | 57.7 | 40.9 | 27.3 | 21.0 | 18.9 | 17.8 | 17.8 |
| 55° | 1694.4 | 1341.7 | 75.6 | 59.8 | 52.5 | 33.6 | 23.1 | 17.8 | 16.8 | 15.7 | 15.7 |
| 57.5° | 1849.8 | 1361.6 | 65.1 | 52.5 | 42.0 | 26.2 | 18.9 | 15.7 | 13.6 | 12.6 | 12.6 |
| 60° | 1984.2 | 1366.9 | 50.4 | 42.0 | 30.4 | 19.9 | 15.7 | 13.6 | 11.5 | 9.4 | 9.4 |
| 62.5° | 2091.2 | 1330.1 | 35.7 | 29.4 | 21.0 | 15.7 | 13.6 | 9.4 | 6.3 | 4.2 | 3.1 |
| 65° | 2176.3 | 1256.6 | 24.1 | 19.9 | 13.6 | 11.5 | 8.4 | 4.2 | 1.0 | 0.0 | 0.0 |
| 67.5° | 2076.5 | 1089.7 | 18.9 | 14.7 | 9.4 | 7.3 | 4.2 | 1.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1693.4 | 845.1 | 13.6 | 9.4 | 6.3 | 2.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1152.7 | 544.9 | 10.5 | 6.3 | 3.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 517.6 | 195.3 | 7.3 | 4.2 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 126.0 | 46.2 | 5.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 33.6 | 11.5 | 3.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 12.6 | 4.2 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 5.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.1 | 1.0 | 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)