

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: P674752

Luminaire Tested: **CCP-SA-2A-830-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674752
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-830-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ T3R distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

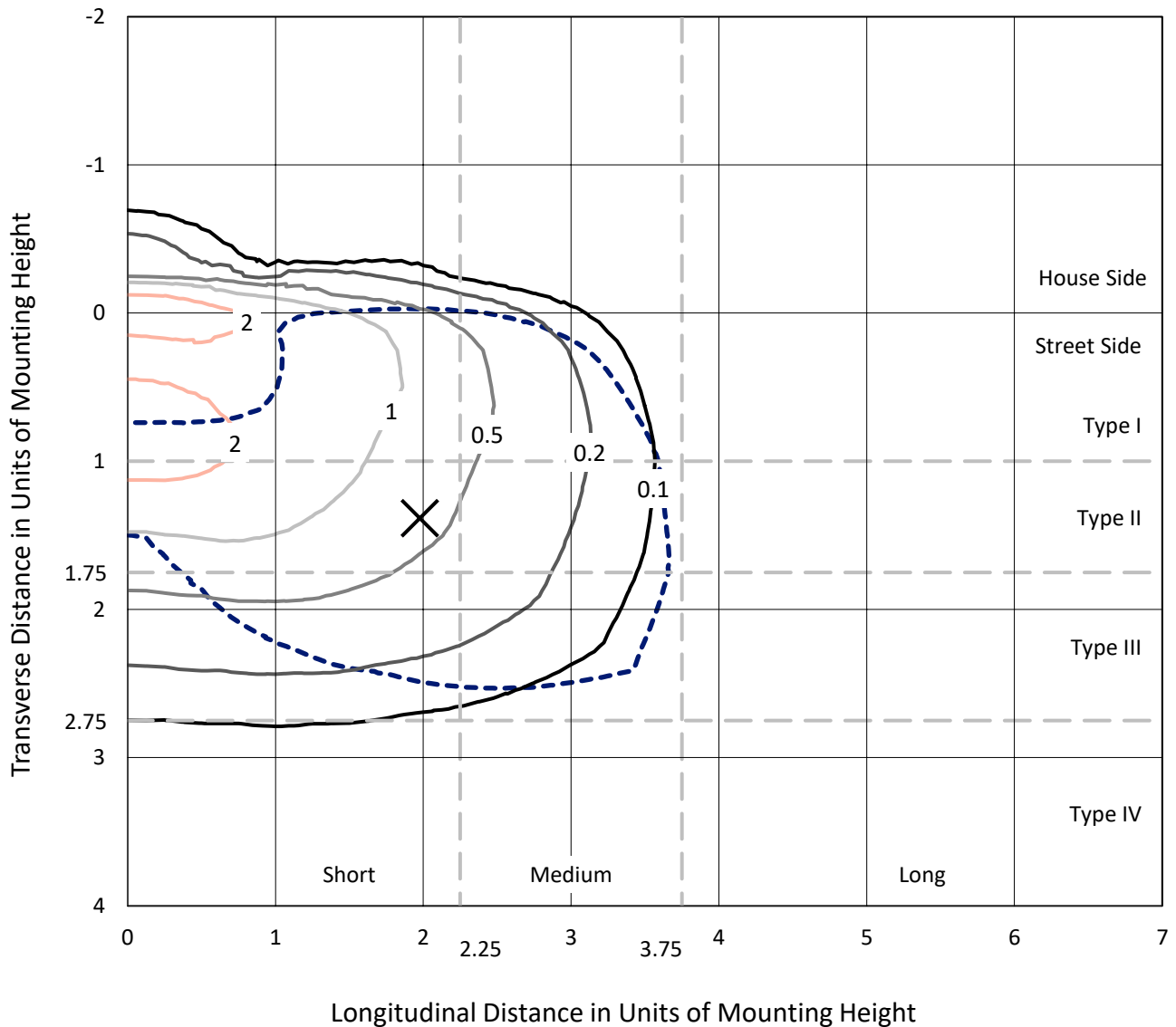
Lumens per Lamp: N/A
Luminaire Lumens: 3448.2 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

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

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Iso-Footcandle Lines of Horizontal Illumination

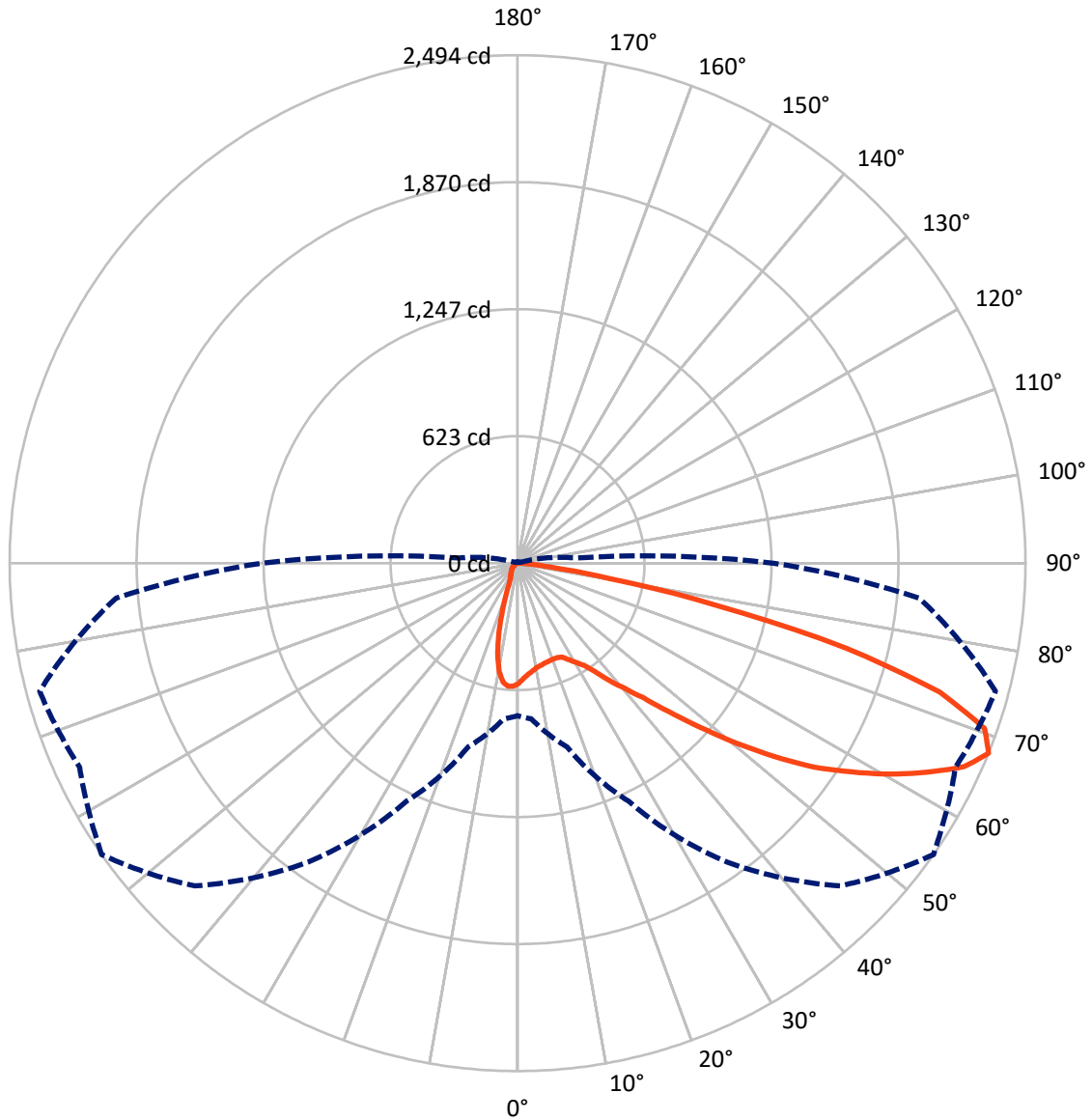
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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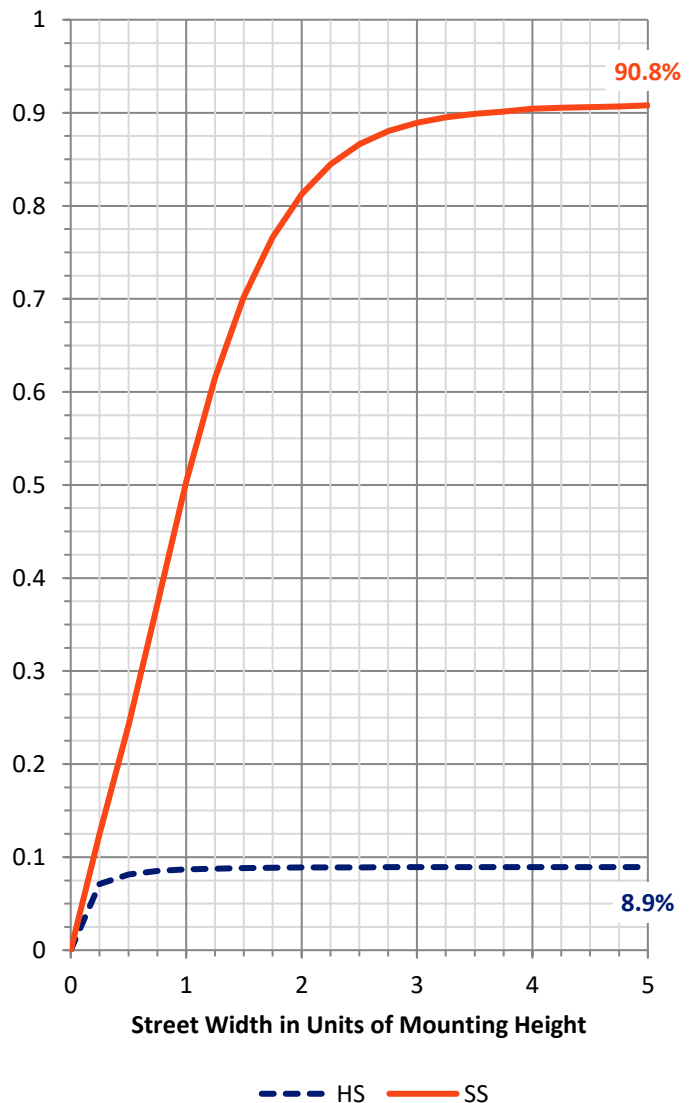
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 309.8 | 0.0 | 309.8 |
| | % Fixture | 9.0 | 0.0 | 9.0 |
| Street Side | Lumens | 3138.4 | 0.0 | 3138.4 |
| | % Fixture | 91.0 | 0.0 | 91.0 |
| Total | Lumens | 3448.2 | 0.0 | 3448.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.9 | 1.5 |
| 10°-20° | 118.1 | 3.4 |
| 20°-30° | 189.4 | 5.5 |
| 30°-40° | 328.6 | 9.5 |
| 40°-50° | 547.9 | 15.9 |
| 50°-60° | 801.2 | 23.2 |
| 60°-70° | 934.1 | 27.1 |
| 70°-80° | 453.3 | 13.1 |
| 80°-90° | 23.7 | 0.7 |
| 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° | 3448.2 | 100.0 |
| 0°-180° | 3448.2 | 100.0 |



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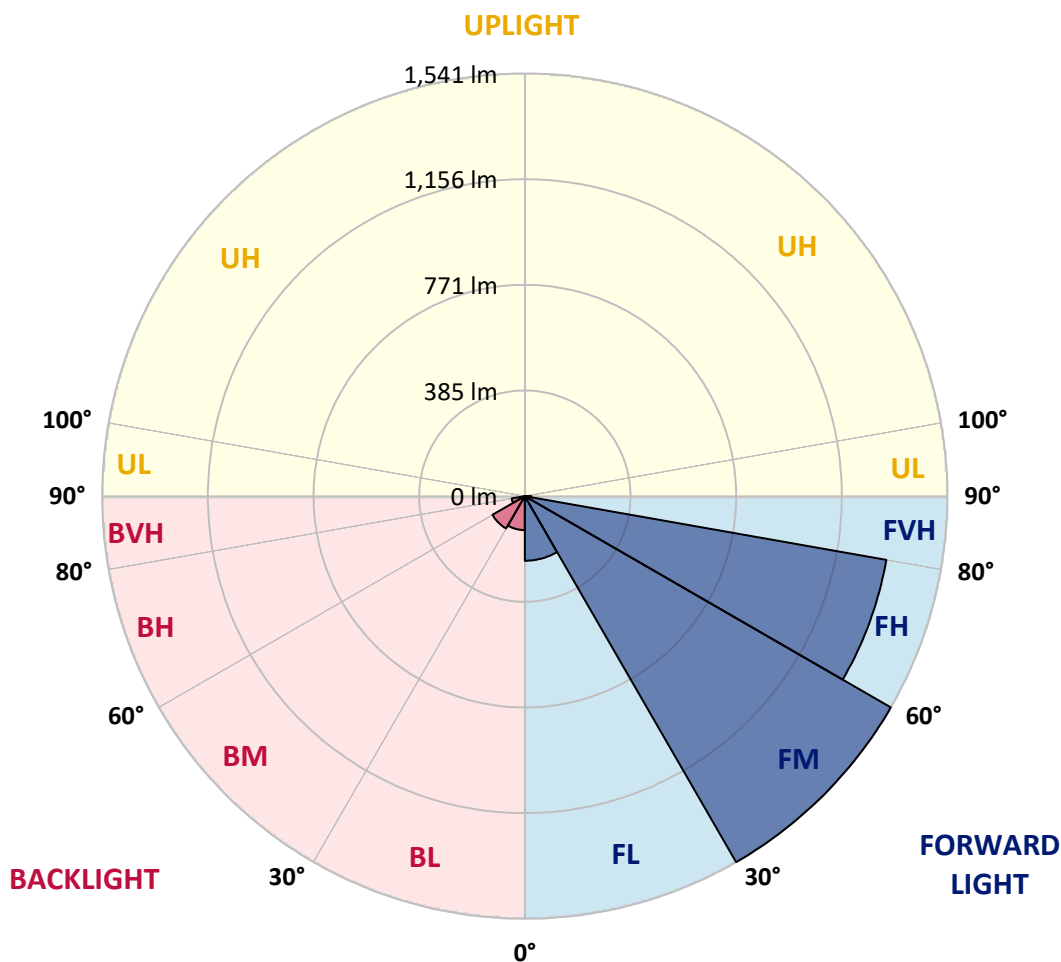
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 235.6 | 6.8 | | | |
| FM (30°-60°) | 1541.2 | 44.7 | | | |
| FH (60°-80°) | 1338.6 | 38.8 | | | G1/1800 |
| FVH (80°-90°) | 23.0 | 0.7 | | | G1/100 |
| BL (0°-30°) | 123.8 | 3.6 | B1/500 | | |
| BM (30°-60°) | 136.4 | 4.0 | B0/220 | | |
| BH (60°-80°) | 48.9 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.7 | 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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 |
| 2.5° | 545.5 | 549.0 | 553.4 | 555.0 | 560.4 | 568.0 | 565.8 | 564.2 | 572.8 | 584.6 | 588.4 |
| 5° | 511.5 | 511.8 | 518.8 | 523.9 | 533.1 | 540.4 | 548.3 | 547.7 | 563.3 | 583.3 | 596.0 |
| 7.5° | 478.1 | 478.8 | 486.1 | 494.0 | 507.4 | 521.7 | 533.7 | 533.1 | 558.2 | 584.9 | 609.0 |
| 10° | 434.3 | 437.5 | 446.4 | 460.3 | 481.3 | 503.9 | 520.7 | 522.3 | 552.5 | 590.9 | 626.8 |
| 12.5° | 399.0 | 400.6 | 410.5 | 428.6 | 453.4 | 482.9 | 514.4 | 513.4 | 553.7 | 602.0 | 650.0 |
| 15° | 384.1 | 383.1 | 389.2 | 402.5 | 430.8 | 468.0 | 508.0 | 510.2 | 558.2 | 614.7 | 674.2 |
| 17.5° | 387.6 | 386.6 | 389.8 | 394.6 | 414.6 | 455.6 | 504.5 | 508.3 | 565.2 | 628.1 | 696.7 |
| 20° | 426.4 | 419.7 | 414.0 | 408.9 | 411.7 | 445.4 | 502.3 | 506.4 | 569.3 | 638.3 | 720.5 |
| 22.5° | 501.0 | 492.7 | 477.5 | 449.2 | 430.5 | 446.0 | 502.9 | 508.3 | 578.5 | 654.8 | 749.4 |
| 25° | 622.7 | 614.7 | 582.0 | 524.2 | 474.6 | 468.9 | 511.5 | 517.2 | 599.8 | 679.9 | 780.3 |
| 27.5° | 783.8 | 766.0 | 726.3 | 643.3 | 547.7 | 505.5 | 537.2 | 543.6 | 630.0 | 699.3 | 801.2 |
| 30° | 917.5 | 913.4 | 875.3 | 773.6 | 648.4 | 559.1 | 566.1 | 569.6 | 643.7 | 711.0 | 822.2 |
| 32.5° | 1056.3 | 1047.8 | 1012.8 | 914.0 | 765.3 | 635.7 | 598.5 | 600.1 | 661.4 | 728.5 | 852.7 |
| 35° | 1177.1 | 1169.1 | 1139.9 | 1044.0 | 901.9 | 738.6 | 652.2 | 648.7 | 698.3 | 766.9 | 894.0 |
| 37.5° | 1288.9 | 1287.9 | 1262.2 | 1164.4 | 1024.6 | 845.4 | 731.3 | 728.5 | 755.8 | 809.2 | 949.9 |
| 40° | 1398.2 | 1395.6 | 1373.7 | 1284.5 | 1145.3 | 951.8 | 806.6 | 799.3 | 804.7 | 868.3 | 1023.6 |
| 42.5° | 1465.2 | 1470.6 | 1478.2 | 1421.7 | 1288.6 | 1076.7 | 901.9 | 897.5 | 896.5 | 960.7 | 1120.5 |
| 45° | 1501.4 | 1511.0 | 1555.8 | 1550.7 | 1440.4 | 1232.0 | 1037.6 | 1026.2 | 1022.4 | 1087.8 | 1231.4 |
| 47.5° | 1536.7 | 1540.8 | 1614.2 | 1645.0 | 1585.9 | 1394.1 | 1201.5 | 1185.6 | 1170.1 | 1242.8 | 1363.9 |
| 50° | 1538.9 | 1545.6 | 1636.5 | 1711.4 | 1707.9 | 1553.5 | 1385.5 | 1371.5 | 1353.7 | 1431.5 | 1493.2 |
| 52.5° | 1507.8 | 1521.1 | 1633.6 | 1753.4 | 1783.6 | 1694.3 | 1576.4 | 1565.0 | 1550.4 | 1608.5 | 1602.1 |
| 55° | 1292.7 | 1315.3 | 1577.7 | 1757.2 | 1836.6 | 1815.0 | 1768.3 | 1752.4 | 1738.1 | 1779.4 | 1708.9 |
| 57.5° | 1190.4 | 1203.1 | 1408.0 | 1754.3 | 1904.3 | 1926.8 | 1934.8 | 1927.5 | 1907.5 | 1958.9 | 1820.4 |
| 60° | 1129.1 | 1147.5 | 1327.0 | 1722.6 | 1977.4 | 2053.3 | 2103.2 | 2088.5 | 2064.1 | 2134.9 | 1939.9 |
| 62.5° | 1055.7 | 1069.1 | 1246.3 | 1631.1 | 2020.9 | 2181.9 | 2261.1 | 2247.7 | 2197.2 | 2297.3 | 2036.4 |
| 65° | 920.4 | 940.4 | 1118.0 | 1487.1 | 1962.4 | 2276.3 | 2409.7 | 2405.3 | 2317.6 | 2419.9 | 2062.8 |
| 67.5° | 749.1 | 767.2 | 932.8 | 1289.9 | 1791.5 | 2241.0 | 2493.9 | 2479.9 | 2372.2 | 2429.1 | 1979.3 |
| 70° | 562.3 | 572.2 | 697.0 | 985.5 | 1467.8 | 2052.6 | 2432.9 | 2430.1 | 2289.3 | 2292.5 | 1722.9 |
| 72.5° | 301.8 | 329.1 | 463.5 | 659.5 | 1032.2 | 1662.5 | 2168.3 | 2156.8 | 2042.5 | 1877.6 | 1239.0 |
| 75° | 105.5 | 113.4 | 246.9 | 370.4 | 560.7 | 1107.5 | 1667.3 | 1640.6 | 1527.5 | 1221.2 | 675.1 |
| 77.5° | 64.8 | 71.2 | 109.6 | 189.3 | 218.3 | 480.7 | 1001.7 | 967.1 | 894.0 | 528.0 | 230.6 |
| 80° | 44.8 | 50.5 | 73.4 | 99.1 | 74.3 | 155.7 | 461.0 | 448.0 | 344.7 | 125.8 | 53.1 |
| 82.5° | 25.1 | 30.2 | 55.6 | 48.6 | 29.9 | 40.3 | 159.8 | 148.0 | 91.8 | 34.0 | 17.8 |
| 85° | 14.6 | 17.5 | 39.1 | 34.3 | 15.2 | 14.3 | 41.6 | 37.2 | 23.8 | 12.7 | 8.6 |
| 87.5° | 7.6 | 9.8 | 28.6 | 22.9 | 9.2 | 5.1 | 9.5 | 9.2 | 6.0 | 4.4 | 5.7 |
| 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° | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 |
| 2.5° | 595.4 | 593.8 | 602.0 | 604.9 | 604.3 | 603.0 | 606.2 | 602.0 | 601.7 | 600.8 | 599.8 |
| 5° | 606.2 | 608.7 | 615.4 | 615.4 | 606.5 | 591.9 | 583.0 | 570.9 | 560.7 | 554.7 | 553.7 |
| 7.5° | 622.4 | 627.5 | 631.9 | 618.2 | 587.7 | 551.5 | 513.1 | 482.9 | 456.5 | 442.9 | 441.6 |
| 10° | 645.2 | 650.0 | 646.5 | 607.4 | 542.0 | 467.0 | 404.4 | 341.5 | 310.1 | 292.9 | 292.9 |
| 12.5° | 672.6 | 676.4 | 655.1 | 580.4 | 466.7 | 358.0 | 274.5 | 208.4 | 177.0 | 156.6 | 155.4 |
| 15° | 702.1 | 703.1 | 653.8 | 533.4 | 373.6 | 240.5 | 157.6 | 115.6 | 102.3 | 99.4 | 98.8 |
| 17.5° | 727.8 | 724.0 | 640.5 | 463.8 | 269.1 | 143.3 | 100.1 | 90.5 | 88.0 | 88.0 | 88.0 |
| 20° | 752.0 | 739.3 | 613.8 | 382.8 | 172.5 | 97.5 | 86.1 | 83.6 | 83.6 | 83.9 | 83.9 |
| 22.5° | 778.7 | 753.6 | 575.7 | 292.9 | 110.9 | 83.6 | 80.7 | 79.4 | 79.1 | 80.1 | 79.7 |
| 25° | 810.1 | 767.6 | 521.0 | 202.4 | 85.8 | 77.8 | 76.6 | 75.3 | 75.3 | 75.3 | 75.3 |
| 27.5° | 827.6 | 765.7 | 458.8 | 127.7 | 75.0 | 72.1 | 70.8 | 69.6 | 68.6 | 68.3 | 68.6 |
| 30° | 842.9 | 754.5 | 377.4 | 89.3 | 67.7 | 64.5 | 63.5 | 62.0 | 60.0 | 59.4 | 59.4 |
| 32.5° | 862.9 | 745.3 | 292.3 | 71.8 | 61.3 | 57.8 | 55.0 | 52.4 | 49.2 | 48.0 | 47.7 |
| 35° | 885.1 | 728.5 | 214.1 | 63.2 | 55.6 | 51.1 | 46.7 | 42.6 | 38.4 | 37.2 | 36.9 |
| 37.5° | 912.7 | 713.2 | 145.2 | 58.5 | 50.8 | 45.4 | 39.4 | 33.7 | 29.9 | 29.2 | 29.2 |
| 40° | 950.2 | 700.5 | 100.4 | 54.3 | 46.4 | 40.0 | 32.7 | 26.7 | 24.1 | 23.5 | 23.5 |
| 42.5° | 1001.4 | 690.0 | 75.9 | 50.8 | 42.6 | 34.6 | 26.4 | 21.9 | 20.0 | 19.4 | 19.4 |
| 45° | 1061.7 | 673.8 | 64.2 | 47.7 | 38.8 | 29.2 | 21.9 | 18.4 | 17.5 | 17.5 | 17.5 |
| 47.5° | 1131.0 | 653.5 | 58.5 | 44.5 | 34.6 | 23.8 | 18.4 | 16.8 | 16.5 | 16.5 | 16.8 |
| 50° | 1200.9 | 629.4 | 54.3 | 40.7 | 29.9 | 20.3 | 16.8 | 15.9 | 15.9 | 16.2 | 16.2 |
| 52.5° | 1248.2 | 591.6 | 50.2 | 36.5 | 25.1 | 17.8 | 15.9 | 15.6 | 15.2 | 15.2 | 15.2 |
| 55° | 1294.3 | 558.5 | 44.5 | 32.1 | 21.0 | 16.5 | 15.2 | 14.9 | 14.9 | 14.6 | 14.6 |
| 57.5° | 1342.3 | 532.5 | 37.2 | 26.7 | 17.8 | 15.6 | 14.6 | 14.6 | 14.0 | 13.7 | 13.7 |
| 60° | 1397.9 | 509.6 | 28.6 | 21.0 | 15.6 | 14.6 | 13.7 | 13.3 | 12.7 | 12.1 | 12.1 |
| 62.5° | 1414.1 | 461.3 | 21.6 | 16.8 | 13.3 | 12.7 | 12.4 | 11.8 | 10.2 | 8.9 | 9.2 |
| 65° | 1371.8 | 385.4 | 17.2 | 13.3 | 10.8 | 10.8 | 9.8 | 8.3 | 6.7 | 5.7 | 5.7 |
| 67.5° | 1255.2 | 287.8 | 14.0 | 10.5 | 8.6 | 8.3 | 7.0 | 6.0 | 4.1 | 3.5 | 3.5 |
| 70° | 1034.4 | 190.3 | 11.4 | 8.3 | 7.0 | 5.7 | 4.8 | 4.4 | 3.2 | 2.5 | 2.5 |
| 72.5° | 725.0 | 103.3 | 9.5 | 6.7 | 5.1 | 3.8 | 3.2 | 2.9 | 2.2 | 1.9 | 1.6 |
| 75° | 382.8 | 39.7 | 7.6 | 5.1 | 3.2 | 2.5 | 1.9 | 1.9 | 1.6 | 1.3 | 1.3 |
| 77.5° | 131.2 | 16.8 | 5.4 | 2.9 | 2.2 | 1.6 | 1.3 | 1.0 | 1.3 | 1.0 | 1.0 |
| 80° | 31.1 | 9.8 | 3.5 | 1.9 | 1.3 | 1.0 | 1.0 | 0.6 | 0.6 | 0.6 | 0.6 |
| 82.5° | 13.7 | 5.7 | 2.2 | 1.3 | 1.3 | 1.0 | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 |
| 85° | 9.2 | 3.5 | 1.6 | 1.3 | 1.0 | 0.6 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.3 | 2.2 | 1.3 | 1.3 | 1.0 | 0.6 | 0.3 | 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)