

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: P472343

Luminaire Tested: **CCP-VA-3-835-U-T3**

Issue Date: 01/27/2021



Test Information

Test Method: LM-79-08
Report Number: P472343
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-VA-3-835-U-T3
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

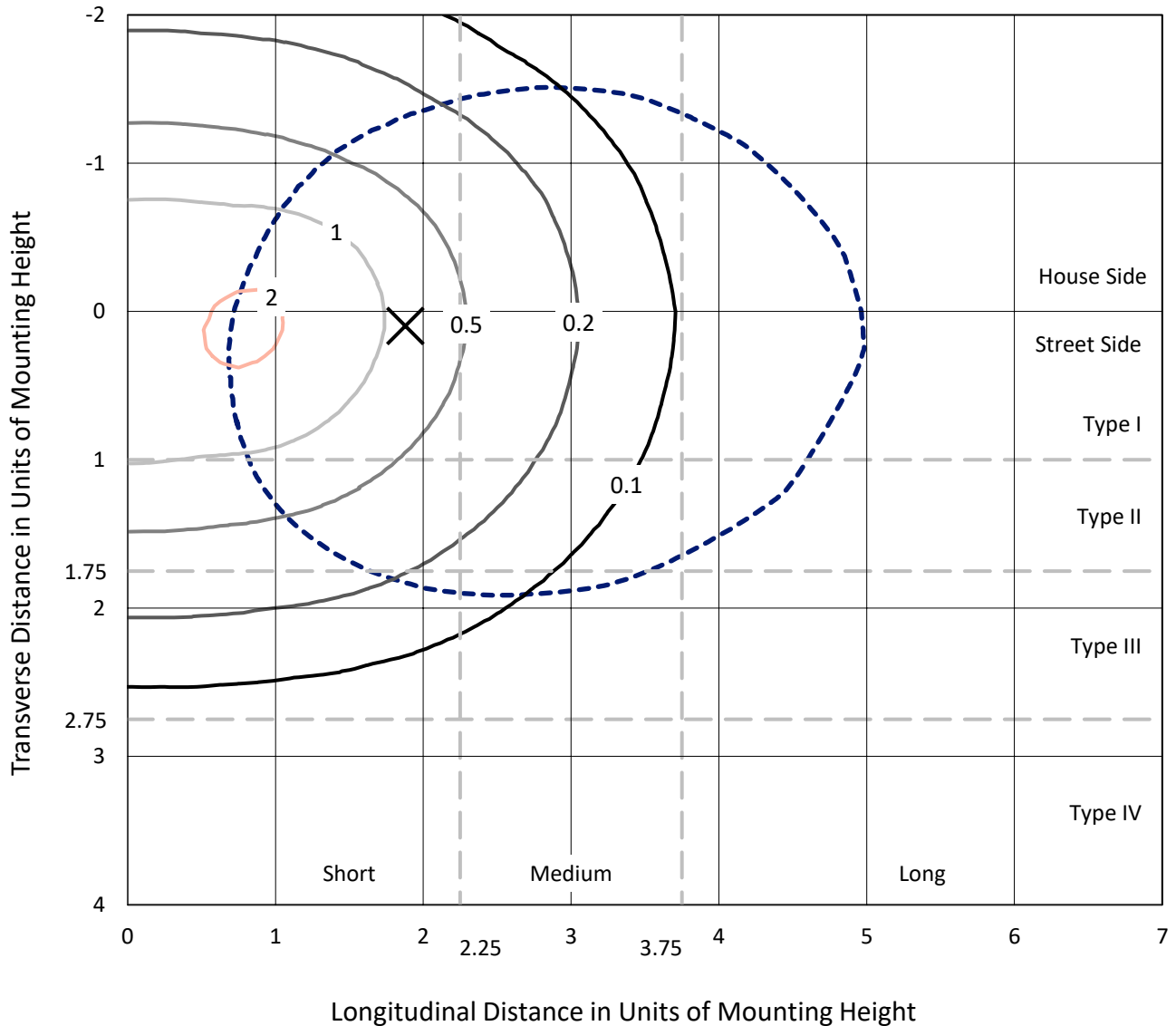
Lumens per Lamp: N/A
Luminaire Lumens: 4180.5 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 48.9
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

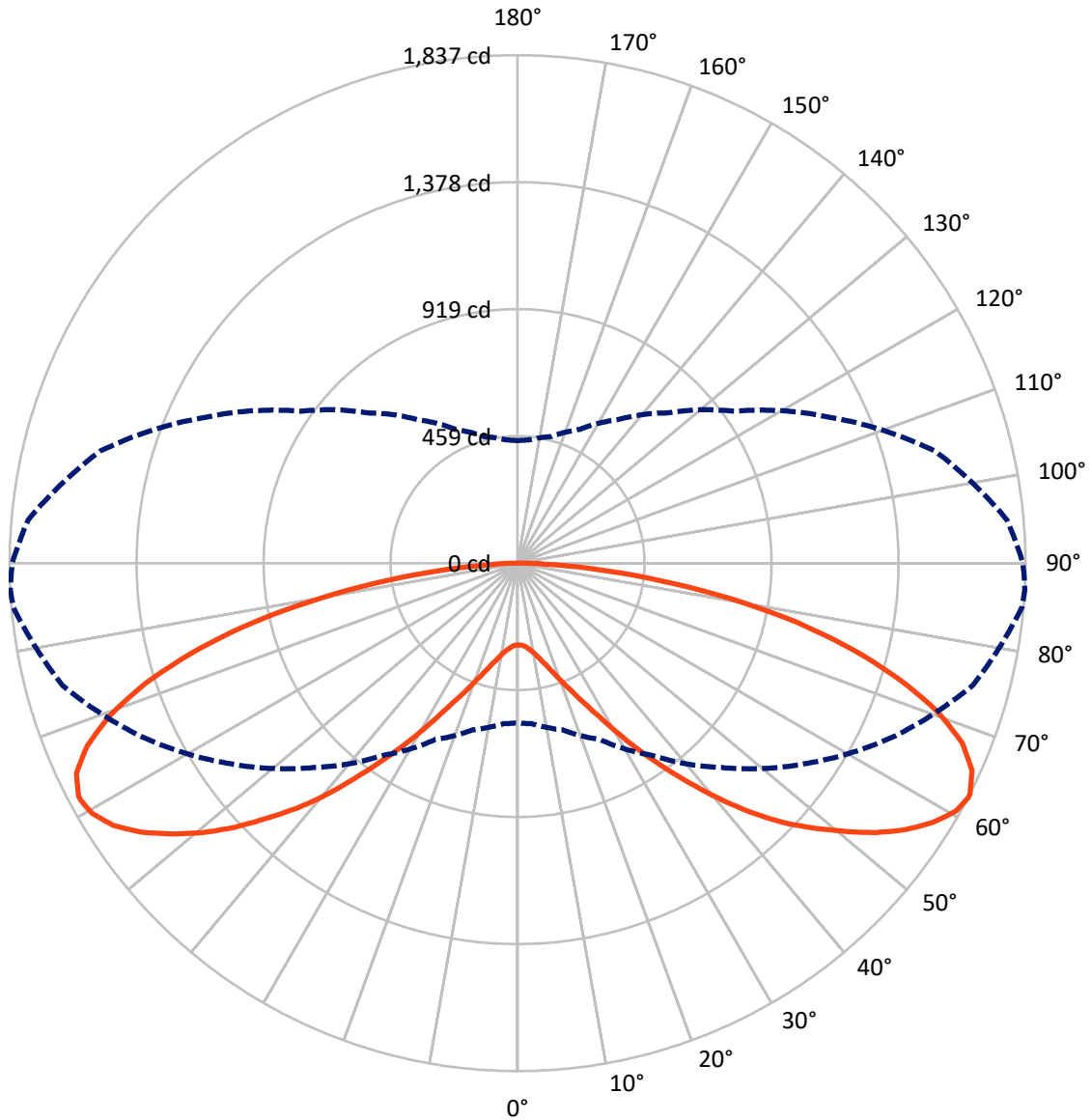
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 87-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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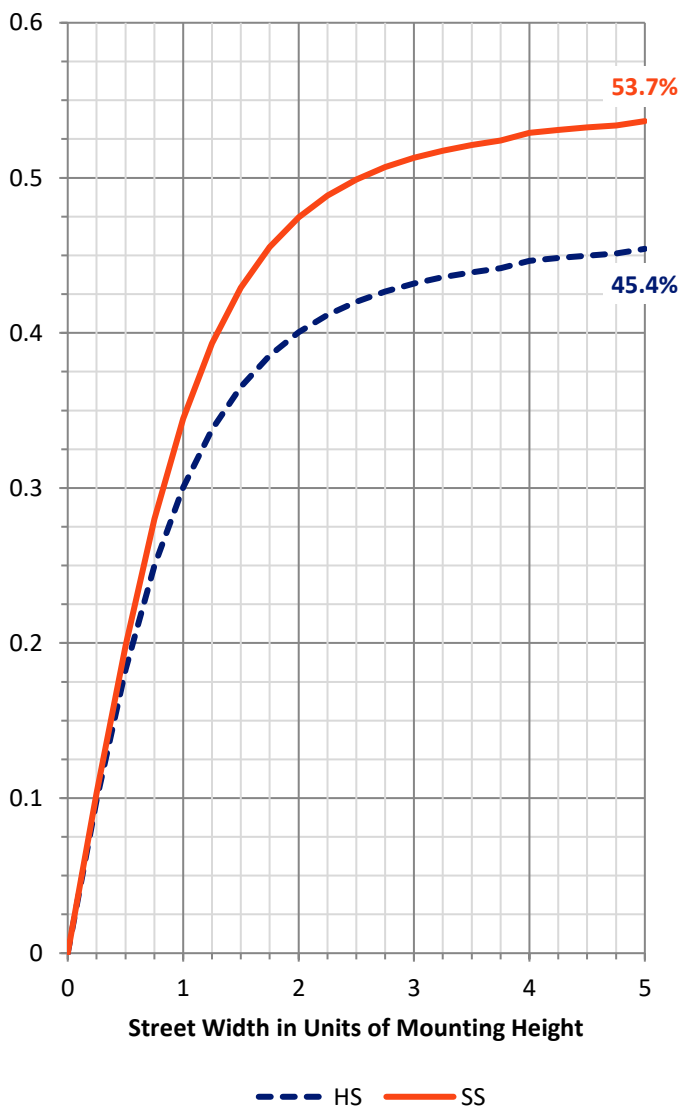
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1924.8 | 0.0 | 1924.8 |
| | % Fixture | 46.0 | 0.0 | 46.0 |
| Street Side | Lumens | 2255.7 | 0.0 | 2255.7 |
| | % Fixture | 54.0 | 0.0 | 54.0 |
| Total | Lumens | 4180.5 | 0.0 | 4180.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.8 | 0.7 |
| 10°-20° | 105.0 | 2.5 |
| 20°-30° | 224.6 | 5.4 |
| 30°-40° | 413.9 | 9.9 |
| 40°-50° | 660.2 | 15.8 |
| 50°-60° | 897.7 | 21.5 |
| 60°-70° | 972.6 | 23.3 |
| 70°-80° | 695.0 | 16.6 |
| 80°-90° | 181.6 | 4.3 |
| 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° | 4180.5 | 100.0 |
| 0°-180° | 4180.5 | 100.0 |

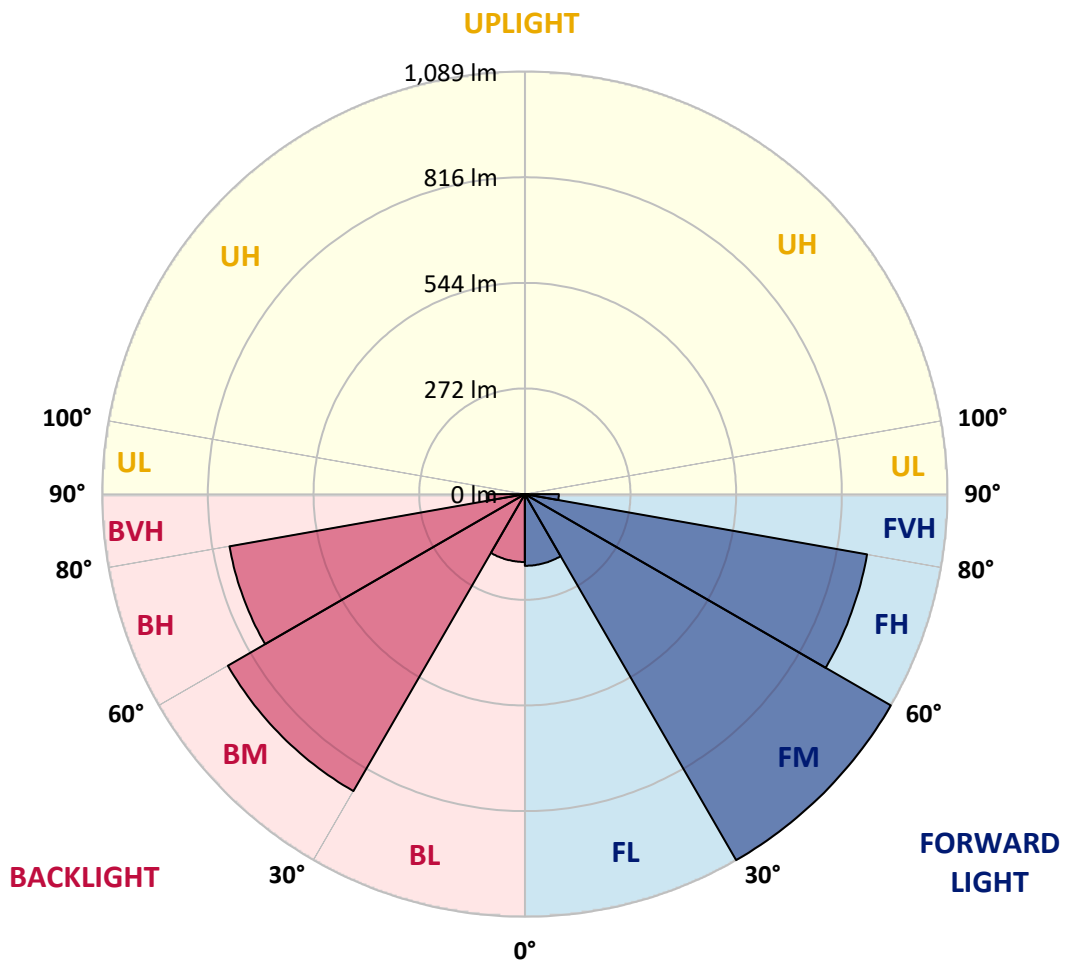


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 184.6 | 4.4 | | | |
| FM (30°-60°) | 1088.5 | 26.0 | | | |
| FH (60°-80°) | 895.1 | 21.4 | | | G1/1800 |
| FVH (80°-90°) | 87.5 | 2.1 | | | G1/100 |
| BL (0°-30°) | 174.8 | 4.2 | B1/500 | | |
| BM (30°-60°) | 883.3 | 21.1 | B1/1000 | | |
| BH (60°-80°) | 772.6 | 18.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 94.2 | 2.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 87° |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0° | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 |
| 2.5° | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 297.2 | 297.2 |
| 5° | 298.6 | 297.9 | 297.9 | 298.6 | 299.2 | 299.9 | 301.2 | 301.9 | 303.3 | 304.6 | 303.9 |
| 7.5° | 304.6 | 304.6 | 304.6 | 305.3 | 307.3 | 308.7 | 310.7 | 312.7 | 314.7 | 316.1 | 315.4 |
| 10° | 314.1 | 314.1 | 314.1 | 315.4 | 317.4 | 321.5 | 324.8 | 328.2 | 330.2 | 331.6 | 332.2 |
| 12.5° | 324.2 | 324.2 | 325.5 | 328.2 | 332.2 | 337.6 | 343.7 | 348.4 | 351.8 | 353.1 | 353.8 |
| 15° | 338.3 | 339.0 | 341.7 | 344.4 | 349.8 | 357.9 | 368.0 | 374.7 | 378.1 | 380.8 | 380.1 |
| 17.5° | 359.9 | 359.2 | 361.2 | 367.3 | 373.4 | 384.8 | 396.9 | 408.4 | 415.1 | 415.1 | 415.1 |
| 20° | 384.1 | 383.5 | 384.8 | 389.5 | 399.6 | 415.1 | 434.0 | 449.5 | 456.9 | 455.6 | 456.9 |
| 22.5° | 411.1 | 411.1 | 412.4 | 416.5 | 426.6 | 448.8 | 475.1 | 498.0 | 508.1 | 504.8 | 503.4 |
| 25° | 440.8 | 440.8 | 442.8 | 446.1 | 460.3 | 487.3 | 522.3 | 555.3 | 565.4 | 562.1 | 560.7 |
| 27.5° | 475.1 | 472.4 | 476.5 | 479.8 | 497.4 | 533.1 | 578.9 | 620.7 | 642.9 | 631.5 | 627.4 |
| 30° | 511.5 | 509.5 | 510.2 | 516.9 | 537.1 | 583.0 | 637.5 | 693.5 | 724.5 | 717.1 | 711.0 |
| 32.5° | 543.2 | 544.5 | 546.6 | 558.0 | 580.9 | 636.2 | 699.5 | 773.0 | 808.0 | 806.0 | 804.7 |
| 35° | 578.9 | 578.9 | 583.0 | 593.7 | 627.4 | 692.8 | 769.6 | 852.5 | 904.4 | 906.4 | 902.4 |
| 37.5° | 607.2 | 607.2 | 613.3 | 627.4 | 667.2 | 744.7 | 839.0 | 936.8 | 999.4 | 1010.2 | 1006.9 |
| 40° | 632.2 | 630.8 | 637.5 | 658.4 | 704.9 | 800.0 | 907.1 | 1020.3 | 1104.6 | 1122.8 | 1118.1 |
| 42.5° | 647.0 | 648.3 | 657.8 | 684.0 | 741.3 | 848.5 | 973.8 | 1099.2 | 1197.6 | 1228.6 | 1228.6 |
| 45° | 657.8 | 659.1 | 673.3 | 704.3 | 774.4 | 896.3 | 1034.5 | 1180.1 | 1288.6 | 1333.7 | 1335.7 |
| 47.5° | 662.5 | 664.5 | 682.0 | 719.8 | 802.0 | 940.1 | 1093.1 | 1252.8 | 1370.1 | 1434.1 | 1430.1 |
| 50° | 662.5 | 665.2 | 686.1 | 731.2 | 826.9 | 977.2 | 1148.4 | 1322.3 | 1453.0 | 1524.4 | 1523.8 |
| 52.5° | 658.4 | 661.8 | 687.4 | 740.0 | 847.8 | 1012.9 | 1197.6 | 1381.6 | 1532.5 | 1616.8 | 1619.5 |
| 55° | 650.3 | 654.4 | 684.0 | 745.4 | 864.0 | 1041.2 | 1237.3 | 1436.8 | 1601.3 | 1696.3 | 1702.4 |
| 57.5° | 634.2 | 638.2 | 671.9 | 740.7 | 870.0 | 1056.1 | 1266.3 | 1475.9 | 1657.2 | 1768.4 | 1769.8 |
| 60° | 607.2 | 611.9 | 648.3 | 725.2 | 864.0 | 1056.7 | 1273.7 | 1493.4 | 1694.9 | 1816.9 | 1821.6 |
| 62° | 577.6 | 583.0 | 624.1 | 703.6 | 848.5 | 1045.9 | 1265.6 | 1492.8 | 1705.1 | 1831.1 | 1837.1 |
| 62.5° | 570.1 | 574.9 | 616.7 | 696.2 | 842.4 | 1040.6 | 1260.9 | 1489.4 | 1703.7 | 1831.8 | 1836.5 |
| 65° | 524.3 | 529.0 | 571.5 | 655.7 | 805.4 | 1007.5 | 1226.6 | 1459.7 | 1679.4 | 1804.8 | 1806.1 |
| 67.5° | 473.8 | 478.5 | 521.0 | 600.5 | 752.1 | 952.3 | 1168.6 | 1401.1 | 1614.7 | 1723.3 | 1733.4 |
| 70° | 415.1 | 421.9 | 461.0 | 539.8 | 682.0 | 872.7 | 1076.9 | 1308.1 | 1511.6 | 1604.0 | 1613.4 |
| 72.5° | 357.2 | 361.9 | 392.9 | 462.3 | 591.0 | 768.3 | 958.3 | 1167.3 | 1352.6 | 1440.2 | 1448.3 |
| 75° | 289.8 | 293.8 | 324.2 | 381.4 | 489.3 | 640.2 | 819.5 | 1002.1 | 1170.6 | 1249.5 | 1255.5 |
| 77.5° | 228.5 | 229.8 | 251.4 | 297.2 | 380.1 | 502.1 | 650.3 | 794.6 | 947.6 | 1019.0 | 1035.2 |
| 80° | 161.1 | 167.8 | 182.6 | 214.3 | 266.9 | 359.9 | 467.0 | 590.4 | 697.5 | 777.7 | 783.1 |
| 82.5° | 104.5 | 105.8 | 115.2 | 126.7 | 164.4 | 227.1 | 297.2 | 373.4 | 469.1 | 521.0 | 516.9 |
| 85° | 54.6 | 54.6 | 58.0 | 61.3 | 74.1 | 101.8 | 143.5 | 196.8 | 252.7 | 291.8 | 286.4 |
| 87.5° | 9.4 | 8.8 | 9.4 | 8.8 | 11.5 | 16.2 | 30.3 | 49.2 | 74.1 | 87.6 | 96.4 |
| 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° | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 |
| 2.5° | 297.2 | 297.2 | 297.9 | 299.2 | 299.2 | 299.9 | 300.6 | 300.6 | 301.2 | 301.9 | 301.9 |
| 5° | 305.3 | 305.3 | 306.0 | 307.3 | 308.0 | 308.0 | 308.7 | 309.3 | 309.3 | 309.3 | 310.0 |
| 7.5° | 316.1 | 316.7 | 317.4 | 318.1 | 318.8 | 318.8 | 320.8 | 320.1 | 320.1 | 320.1 | 320.1 |
| 10° | 331.6 | 332.9 | 332.9 | 332.9 | 332.9 | 332.2 | 332.9 | 332.2 | 330.9 | 330.9 | 330.2 |
| 12.5° | 354.5 | 354.5 | 353.1 | 351.8 | 349.8 | 349.1 | 348.4 | 346.4 | 343.7 | 342.4 | 342.4 |
| 15° | 380.8 | 379.4 | 376.7 | 374.0 | 370.7 | 368.0 | 363.3 | 360.6 | 357.2 | 355.8 | 355.8 |
| 17.5° | 414.5 | 412.4 | 405.0 | 399.6 | 391.6 | 385.5 | 380.1 | 374.7 | 370.7 | 369.3 | 368.6 |
| 20° | 452.9 | 448.2 | 437.4 | 425.3 | 414.5 | 405.0 | 394.9 | 388.2 | 384.1 | 380.8 | 380.1 |
| 22.5° | 501.4 | 494.7 | 475.8 | 456.9 | 437.4 | 423.9 | 411.1 | 401.7 | 394.3 | 390.9 | 389.5 |
| 25° | 554.0 | 543.9 | 519.6 | 491.3 | 464.3 | 443.4 | 427.3 | 414.5 | 405.7 | 400.3 | 399.0 |
| 27.5° | 620.7 | 605.9 | 570.1 | 527.7 | 492.0 | 465.7 | 443.4 | 428.6 | 417.2 | 409.1 | 407.7 |
| 30° | 698.9 | 683.4 | 624.1 | 568.1 | 523.0 | 485.9 | 461.6 | 442.1 | 427.9 | 418.5 | 416.5 |
| 32.5° | 791.9 | 763.6 | 695.5 | 616.7 | 554.6 | 509.5 | 478.5 | 455.6 | 438.1 | 427.3 | 424.6 |
| 35° | 886.2 | 857.2 | 767.6 | 667.9 | 588.3 | 533.8 | 496.7 | 469.1 | 449.5 | 436.0 | 434.7 |
| 37.5° | 992.0 | 957.0 | 851.9 | 725.8 | 624.7 | 559.4 | 513.5 | 481.9 | 458.3 | 444.1 | 442.8 |
| 40° | 1105.9 | 1070.2 | 942.2 | 792.5 | 667.9 | 584.3 | 529.7 | 494.0 | 467.7 | 452.2 | 450.2 |
| 42.5° | 1217.8 | 1175.3 | 1033.8 | 859.3 | 711.7 | 611.9 | 548.6 | 506.8 | 475.8 | 459.6 | 456.9 |
| 45° | 1314.8 | 1277.8 | 1126.8 | 936.1 | 762.2 | 640.2 | 567.5 | 518.9 | 484.6 | 466.4 | 463.7 |
| 47.5° | 1424.7 | 1384.9 | 1228.6 | 1006.9 | 810.7 | 672.6 | 585.6 | 529.7 | 492.0 | 472.4 | 470.4 |
| 50° | 1521.7 | 1486.0 | 1318.9 | 1072.2 | 857.2 | 702.9 | 602.5 | 539.8 | 498.0 | 477.1 | 474.4 |
| 52.5° | 1610.0 | 1578.4 | 1401.8 | 1133.6 | 897.0 | 731.2 | 618.0 | 547.2 | 502.1 | 479.2 | 475.8 |
| 55° | 1699.0 | 1657.9 | 1473.9 | 1187.5 | 928.7 | 753.5 | 630.8 | 550.6 | 501.4 | 477.8 | 474.4 |
| 57.5° | 1765.7 | 1726.6 | 1526.5 | 1225.9 | 952.3 | 768.3 | 638.2 | 549.9 | 497.4 | 471.8 | 467.7 |
| 60° | 1810.9 | 1767.7 | 1557.5 | 1244.8 | 960.4 | 773.0 | 638.2 | 543.9 | 487.3 | 459.6 | 455.6 |
| 62° | 1827.7 | 1777.8 | 1563.5 | 1247.5 | 957.0 | 768.3 | 633.5 | 533.8 | 473.8 | 446.8 | 442.8 |
| 62.5° | 1828.4 | 1777.2 | 1561.5 | 1245.4 | 955.0 | 766.3 | 630.8 | 530.4 | 470.4 | 442.8 | 438.7 |
| 65° | 1798.7 | 1747.5 | 1537.2 | 1224.5 | 932.1 | 748.1 | 611.9 | 510.8 | 446.8 | 419.9 | 415.8 |
| 67.5° | 1713.8 | 1674.7 | 1479.3 | 1176.0 | 893.0 | 714.4 | 584.3 | 482.5 | 419.2 | 390.9 | 388.9 |
| 70° | 1595.9 | 1560.2 | 1384.9 | 1102.6 | 836.4 | 665.8 | 543.2 | 444.8 | 384.1 | 358.5 | 353.8 |
| 72.5° | 1447.6 | 1401.1 | 1250.8 | 1004.2 | 754.8 | 599.1 | 489.3 | 397.6 | 343.7 | 320.8 | 318.1 |
| 75° | 1263.6 | 1207.7 | 1082.3 | 874.1 | 657.1 | 518.9 | 426.6 | 345.1 | 297.2 | 277.7 | 279.7 |
| 77.5° | 1029.1 | 1002.8 | 874.8 | 696.8 | 535.1 | 429.3 | 349.8 | 292.5 | 251.4 | 235.2 | 233.9 |
| 80° | 777.0 | 752.1 | 662.5 | 529.0 | 404.4 | 324.8 | 270.9 | 230.5 | 202.2 | 188.0 | 187.4 |
| 82.5° | 527.0 | 503.4 | 435.4 | 355.2 | 275.6 | 229.8 | 196.1 | 169.8 | 152.3 | 145.6 | 145.6 |
| 85° | 289.8 | 269.6 | 230.5 | 192.1 | 155.7 | 131.4 | 126.7 | 113.2 | 108.5 | 107.2 | 108.5 |
| 87.5° | 90.3 | 89.6 | 76.2 | 62.7 | 54.6 | 55.3 | 49.9 | 51.2 | 48.5 | 47.8 | 51.2 |
| 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)