

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: P472322

Luminaire Tested: **CCP-VA-2-740-U-T3**

Issue Date: 01/27/2021



Test Information

Test Method: LM-79-08
Report Number: P472322
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-VA-2-740-U-T3
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T3
DISTRIBUTION LENS
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

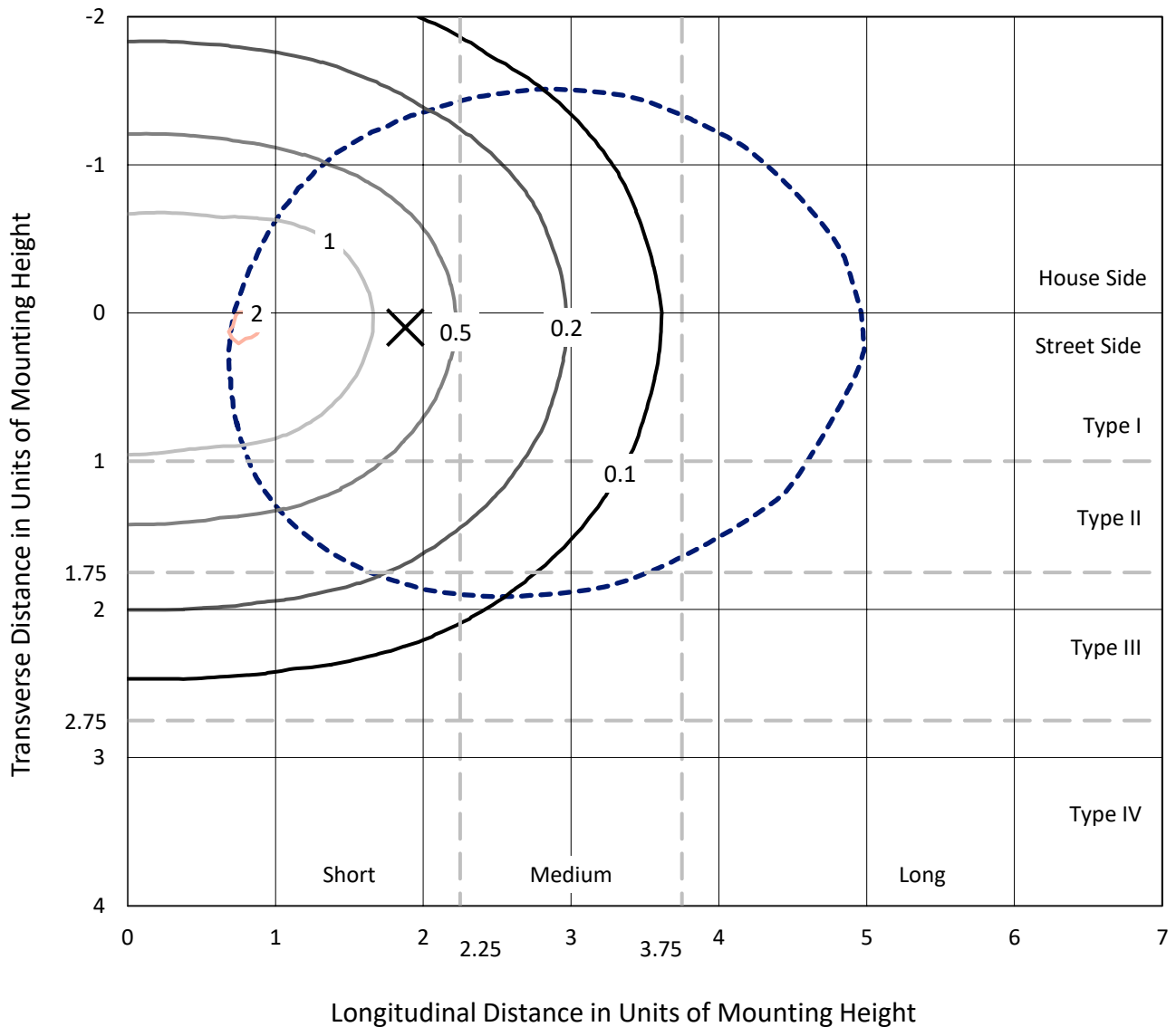
Lumens per Lamp: N/A
Luminaire Lumens: 3817.1 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 41
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

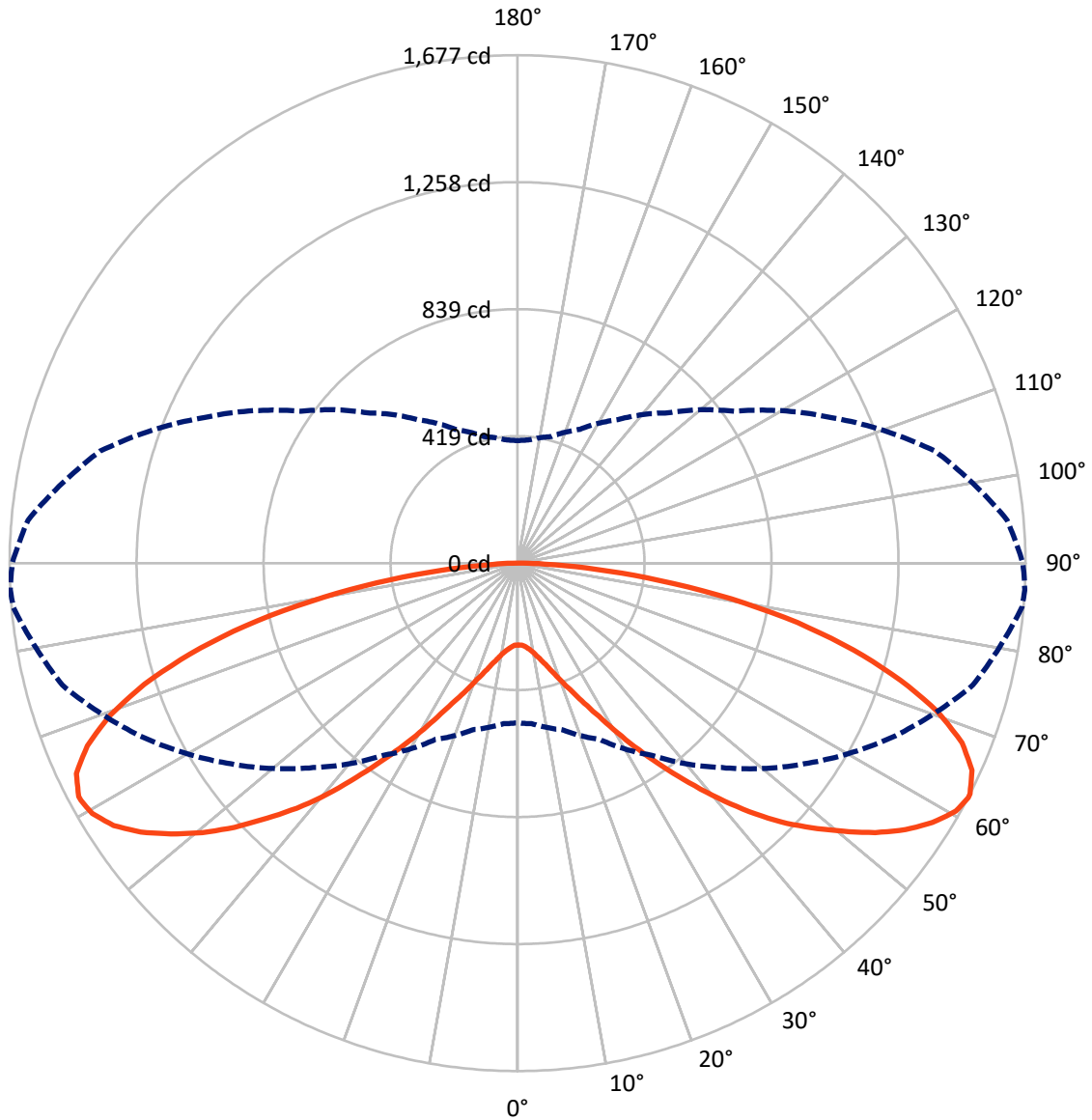
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 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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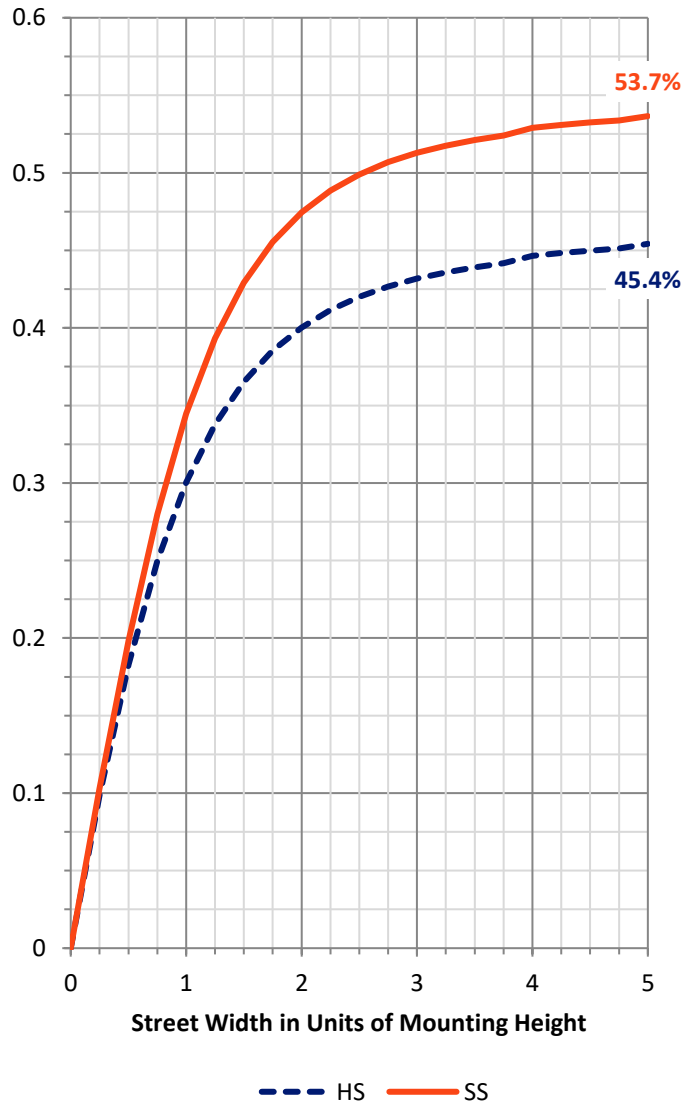
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1757.5 | 0.0 | 1757.5 |
| | % Fixture | 46.0 | 0.0 | 46.0 |
| Street Side | Lumens | 2059.6 | 0.0 | 2059.6 |
| | % Fixture | 54.0 | 0.0 | 54.0 |
| Total | Lumens | 3817.1 | 0.0 | 3817.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 27.2 | 0.7 |
| 10°-20° | 95.9 | 2.5 |
| 20°-30° | 205.1 | 5.4 |
| 30°-40° | 378.0 | 9.9 |
| 40°-50° | 602.8 | 15.8 |
| 50°-60° | 819.7 | 21.5 |
| 60°-70° | 888.1 | 23.3 |
| 70°-80° | 634.6 | 16.6 |
| 80°-90° | 165.9 | 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° | 3817.1 | 100.0 |
| 0°-180° | 3817.1 | 100.0 |

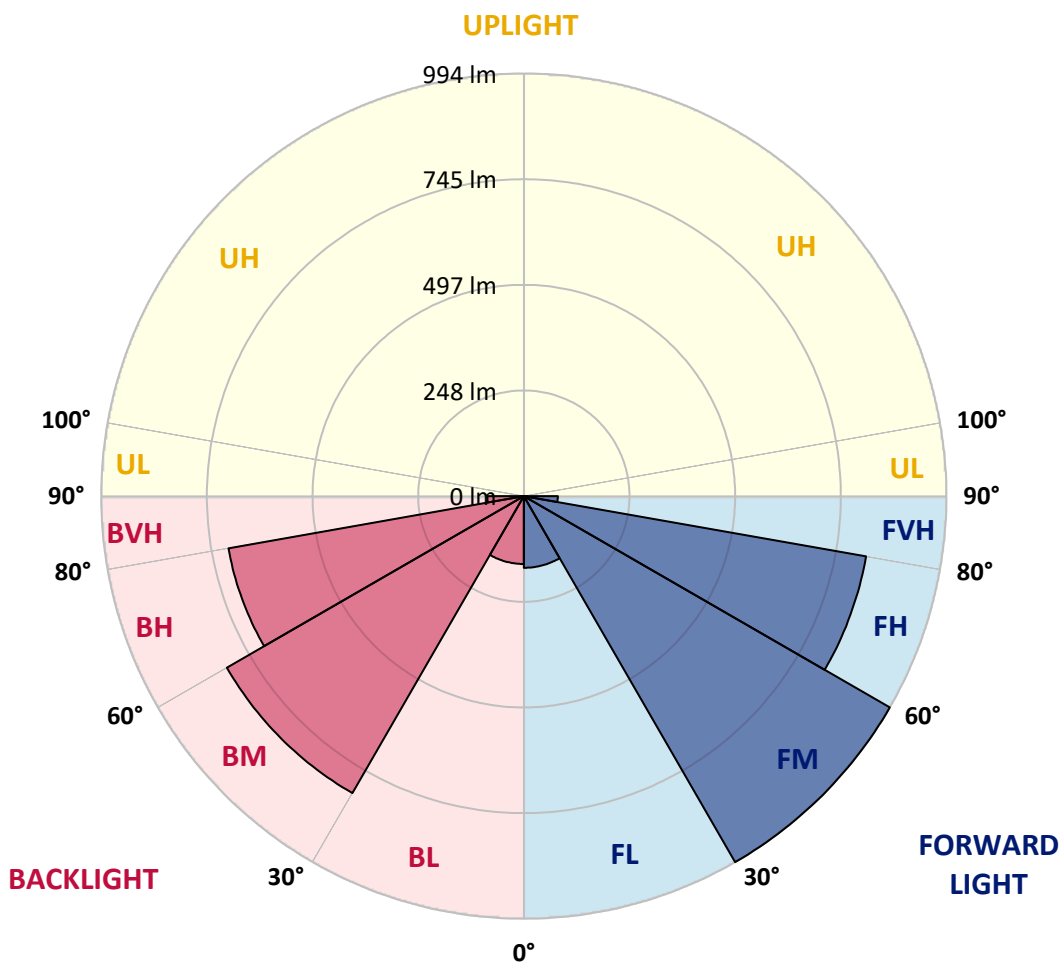


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 168.6 | 4.4 | | | |
| FM (30°-60°) | 993.9 | 26.0 | | | |
| FH (60°-80°) | 817.2 | 21.4 | | | G1/1800 |
| FVH (80°-90°) | 79.9 | 2.1 | | | G1/100 |
| BL (0°-30°) | 159.6 | 4.2 | B1/500 | | |
| BM (30°-60°) | 806.5 | 21.1 | B1/1000 | | |
| BH (60°-80°) | 705.4 | 18.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 86.0 | 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° | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 |
| 2.5° | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 271.4 | 271.4 |
| 5° | 272.6 | 272.0 | 272.0 | 272.6 | 273.2 | 273.8 | 275.1 | 275.7 | 276.9 | 278.1 | 277.5 |
| 7.5° | 278.1 | 278.1 | 278.1 | 278.8 | 280.6 | 281.8 | 283.7 | 285.5 | 287.4 | 288.6 | 288.0 |
| 10° | 286.8 | 286.8 | 286.8 | 288.0 | 289.8 | 293.5 | 296.6 | 299.7 | 301.5 | 302.8 | 303.4 |
| 12.5° | 296.0 | 296.0 | 297.2 | 299.7 | 303.4 | 308.3 | 313.8 | 318.1 | 321.2 | 322.4 | 323.1 |
| 15° | 308.9 | 309.5 | 312.0 | 314.4 | 319.4 | 326.7 | 336.0 | 342.1 | 345.2 | 347.7 | 347.1 |
| 17.5° | 328.6 | 328.0 | 329.8 | 335.4 | 340.9 | 351.4 | 362.4 | 372.9 | 379.1 | 379.1 | 379.1 |
| 20° | 350.7 | 350.1 | 351.4 | 355.7 | 364.9 | 379.1 | 396.3 | 410.4 | 417.2 | 416.0 | 417.2 |
| 22.5° | 375.4 | 375.4 | 376.6 | 380.3 | 389.5 | 409.8 | 433.8 | 454.7 | 464.0 | 460.9 | 459.7 |
| 25° | 402.4 | 402.4 | 404.3 | 407.4 | 420.3 | 444.9 | 476.9 | 507.0 | 516.3 | 513.2 | 512.0 |
| 27.5° | 433.8 | 431.4 | 435.1 | 438.1 | 454.1 | 486.7 | 528.6 | 566.7 | 587.0 | 576.6 | 572.9 |
| 30° | 467.0 | 465.2 | 465.8 | 472.0 | 490.4 | 532.3 | 582.1 | 633.2 | 661.5 | 654.7 | 649.2 |
| 32.5° | 496.0 | 497.2 | 499.0 | 509.5 | 530.4 | 580.9 | 638.7 | 705.8 | 737.8 | 736.0 | 734.7 |
| 35° | 528.6 | 528.6 | 532.3 | 542.1 | 572.9 | 632.6 | 702.7 | 778.4 | 825.8 | 827.6 | 824.0 |
| 37.5° | 554.4 | 554.4 | 560.0 | 572.9 | 609.2 | 680.0 | 766.1 | 855.3 | 912.6 | 922.4 | 919.3 |
| 40° | 577.2 | 576.0 | 582.1 | 601.2 | 643.7 | 730.4 | 828.3 | 931.6 | 1008.6 | 1025.2 | 1020.9 |
| 42.5° | 590.7 | 592.0 | 600.6 | 624.6 | 676.9 | 774.7 | 889.2 | 1003.6 | 1093.5 | 1121.8 | 1121.8 |
| 45° | 600.6 | 601.8 | 614.7 | 643.0 | 707.0 | 818.4 | 944.6 | 1077.5 | 1176.5 | 1217.8 | 1219.6 |
| 47.5° | 604.9 | 606.7 | 622.7 | 657.2 | 732.3 | 858.4 | 998.1 | 1143.9 | 1251.0 | 1309.5 | 1305.8 |
| 50° | 604.9 | 607.3 | 626.4 | 667.7 | 755.0 | 892.3 | 1048.6 | 1207.3 | 1326.7 | 1391.9 | 1391.3 |
| 52.5° | 601.2 | 604.3 | 627.7 | 675.7 | 774.1 | 924.9 | 1093.5 | 1261.5 | 1399.3 | 1476.2 | 1478.7 |
| 55° | 593.8 | 597.5 | 624.6 | 680.6 | 788.9 | 950.7 | 1129.8 | 1311.9 | 1462.1 | 1548.8 | 1554.4 |
| 57.5° | 579.0 | 582.7 | 613.5 | 676.3 | 794.4 | 964.2 | 1156.2 | 1347.6 | 1513.1 | 1614.7 | 1615.9 |
| 60° | 554.4 | 558.7 | 592.0 | 662.1 | 788.9 | 964.9 | 1163.0 | 1363.6 | 1547.6 | 1659.0 | 1663.3 |
| 62° | 527.4 | 532.3 | 569.8 | 642.4 | 774.7 | 955.0 | 1155.6 | 1363.0 | 1556.8 | 1671.9 | 1677.4 |
| 62.5° | 520.6 | 524.9 | 563.0 | 635.7 | 769.2 | 950.1 | 1151.3 | 1359.9 | 1555.6 | 1672.5 | 1676.8 |
| 65° | 478.7 | 483.0 | 521.8 | 598.7 | 735.3 | 919.9 | 1119.9 | 1332.8 | 1533.4 | 1647.9 | 1649.1 |
| 67.5° | 432.6 | 436.9 | 475.7 | 548.3 | 686.7 | 869.5 | 1067.0 | 1279.3 | 1474.4 | 1573.4 | 1582.7 |
| 70° | 379.1 | 385.2 | 420.9 | 492.9 | 622.7 | 796.9 | 983.3 | 1194.4 | 1380.2 | 1464.5 | 1473.1 |
| 72.5° | 326.1 | 330.4 | 358.7 | 422.1 | 539.7 | 701.5 | 875.0 | 1065.8 | 1235.0 | 1315.0 | 1322.4 |
| 75° | 264.6 | 268.3 | 296.0 | 348.3 | 446.7 | 584.6 | 748.3 | 915.0 | 1068.9 | 1140.9 | 1146.4 |
| 77.5° | 208.6 | 209.8 | 229.5 | 271.4 | 347.1 | 458.4 | 593.8 | 725.5 | 865.2 | 930.4 | 945.2 |
| 80° | 147.1 | 153.2 | 166.8 | 195.7 | 243.7 | 328.6 | 426.4 | 539.0 | 636.9 | 710.1 | 715.0 |
| 82.5° | 95.4 | 96.6 | 105.2 | 115.7 | 150.1 | 207.4 | 271.4 | 340.9 | 428.3 | 475.7 | 472.0 |
| 85° | 49.8 | 49.8 | 52.9 | 56.0 | 67.7 | 92.9 | 131.1 | 179.7 | 230.8 | 266.4 | 261.5 |
| 87.5° | 8.6 | 8.0 | 8.6 | 8.0 | 10.5 | 14.8 | 27.7 | 44.9 | 67.7 | 80.0 | 88.0 |
| 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° | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 |
| 2.5° | 271.4 | 271.4 | 272.0 | 273.2 | 273.2 | 273.8 | 274.4 | 274.4 | 275.1 | 275.7 | 275.7 |
| 5° | 278.8 | 278.8 | 279.4 | 280.6 | 281.2 | 281.2 | 281.8 | 282.4 | 282.4 | 282.4 | 283.1 |
| 7.5° | 288.6 | 289.2 | 289.8 | 290.4 | 291.1 | 291.1 | 292.9 | 292.3 | 292.3 | 292.3 | 292.3 |
| 10° | 302.8 | 304.0 | 304.0 | 304.0 | 304.0 | 303.4 | 304.0 | 303.4 | 302.1 | 302.1 | 301.5 |
| 12.5° | 323.7 | 323.7 | 322.4 | 321.2 | 319.4 | 318.7 | 318.1 | 316.3 | 313.8 | 312.6 | 312.6 |
| 15° | 347.7 | 346.4 | 344.0 | 341.5 | 338.4 | 336.0 | 331.7 | 329.2 | 326.1 | 324.9 | 324.9 |
| 17.5° | 378.4 | 376.6 | 369.8 | 364.9 | 357.5 | 352.0 | 347.1 | 342.1 | 338.4 | 337.2 | 336.6 |
| 20° | 413.5 | 409.2 | 399.4 | 388.3 | 378.4 | 369.8 | 360.6 | 354.4 | 350.7 | 347.7 | 347.1 |
| 22.5° | 457.8 | 451.7 | 434.4 | 417.2 | 399.4 | 387.1 | 375.4 | 366.7 | 360.0 | 356.9 | 355.7 |
| 25° | 505.8 | 496.6 | 474.4 | 448.6 | 424.0 | 404.9 | 390.1 | 378.4 | 370.4 | 365.5 | 364.3 |
| 27.5° | 566.7 | 553.2 | 520.6 | 481.8 | 449.2 | 425.2 | 404.9 | 391.4 | 380.9 | 373.5 | 372.3 |
| 30° | 638.1 | 624.0 | 569.8 | 518.7 | 477.5 | 443.7 | 421.5 | 403.7 | 390.7 | 382.1 | 380.3 |
| 32.5° | 723.0 | 697.2 | 635.0 | 563.0 | 506.4 | 465.2 | 436.9 | 416.0 | 400.0 | 390.1 | 387.7 |
| 35° | 809.2 | 782.7 | 700.9 | 609.8 | 537.2 | 487.4 | 453.5 | 428.3 | 410.4 | 398.1 | 396.9 |
| 37.5° | 905.8 | 873.8 | 777.8 | 662.7 | 570.4 | 510.7 | 468.9 | 440.0 | 418.4 | 405.5 | 404.3 |
| 40° | 1009.8 | 977.2 | 860.3 | 723.6 | 609.8 | 533.5 | 483.7 | 451.0 | 427.1 | 412.9 | 411.1 |
| 42.5° | 1111.9 | 1073.2 | 943.9 | 784.6 | 649.8 | 558.7 | 500.9 | 462.7 | 434.4 | 419.7 | 417.2 |
| 45° | 1200.5 | 1166.7 | 1028.9 | 854.7 | 696.0 | 584.6 | 518.1 | 473.8 | 442.4 | 425.8 | 423.4 |
| 47.5° | 1300.8 | 1264.5 | 1121.8 | 919.3 | 740.3 | 614.1 | 534.7 | 483.7 | 449.2 | 431.4 | 429.5 |
| 50° | 1389.5 | 1356.8 | 1204.2 | 979.0 | 782.7 | 641.8 | 550.1 | 492.9 | 454.7 | 435.7 | 433.2 |
| 52.5° | 1470.1 | 1441.1 | 1279.9 | 1035.0 | 819.0 | 667.7 | 564.3 | 499.7 | 458.4 | 437.5 | 434.4 |
| 55° | 1551.3 | 1513.8 | 1345.8 | 1084.2 | 847.9 | 688.0 | 576.0 | 502.7 | 457.8 | 436.3 | 433.2 |
| 57.5° | 1612.2 | 1576.5 | 1393.8 | 1119.3 | 869.5 | 701.5 | 582.7 | 502.1 | 454.1 | 430.7 | 427.1 |
| 60° | 1653.4 | 1614.1 | 1422.1 | 1136.5 | 876.9 | 705.8 | 582.7 | 496.6 | 444.9 | 419.7 | 416.0 |
| 62° | 1668.8 | 1623.3 | 1427.6 | 1139.0 | 873.8 | 701.5 | 578.4 | 487.4 | 432.6 | 408.0 | 404.3 |
| 62.5° | 1669.4 | 1622.7 | 1425.8 | 1137.2 | 871.9 | 699.7 | 576.0 | 484.3 | 429.5 | 404.3 | 400.6 |
| 65° | 1642.4 | 1595.6 | 1403.6 | 1118.1 | 851.0 | 683.0 | 558.7 | 466.4 | 408.0 | 383.4 | 379.7 |
| 67.5° | 1564.8 | 1529.1 | 1350.7 | 1073.8 | 815.3 | 652.3 | 533.5 | 440.6 | 382.7 | 356.9 | 355.1 |
| 70° | 1457.1 | 1424.5 | 1264.5 | 1006.7 | 763.6 | 608.0 | 496.0 | 406.1 | 350.7 | 327.4 | 323.1 |
| 72.5° | 1321.8 | 1279.3 | 1142.1 | 916.9 | 689.2 | 547.0 | 446.7 | 363.1 | 313.8 | 292.9 | 290.4 |
| 75° | 1153.8 | 1102.7 | 988.2 | 798.1 | 600.0 | 473.8 | 389.5 | 315.1 | 271.4 | 253.5 | 255.4 |
| 77.5° | 939.6 | 915.6 | 798.7 | 636.3 | 488.6 | 392.0 | 319.4 | 267.1 | 229.5 | 214.8 | 213.5 |
| 80° | 709.5 | 686.7 | 604.9 | 483.0 | 369.2 | 296.6 | 247.4 | 210.4 | 184.6 | 171.7 | 171.1 |
| 82.5° | 481.2 | 459.7 | 397.5 | 324.3 | 251.7 | 209.8 | 179.1 | 155.1 | 139.1 | 132.9 | 132.9 |
| 85° | 264.6 | 246.1 | 210.4 | 175.4 | 142.1 | 120.0 | 115.7 | 103.4 | 99.1 | 97.8 | 99.1 |
| 87.5° | 82.5 | 81.8 | 69.5 | 57.2 | 49.8 | 50.5 | 45.5 | 46.8 | 44.3 | 43.7 | 46.8 |
| 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)