

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: P472342

Luminaire Tested: **CCP-VA-2-835-U-T3**

Issue Date: 01/27/2021



Test Information

Test Method: LM-79-08
Report Number: P472342
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-VA-2-835-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

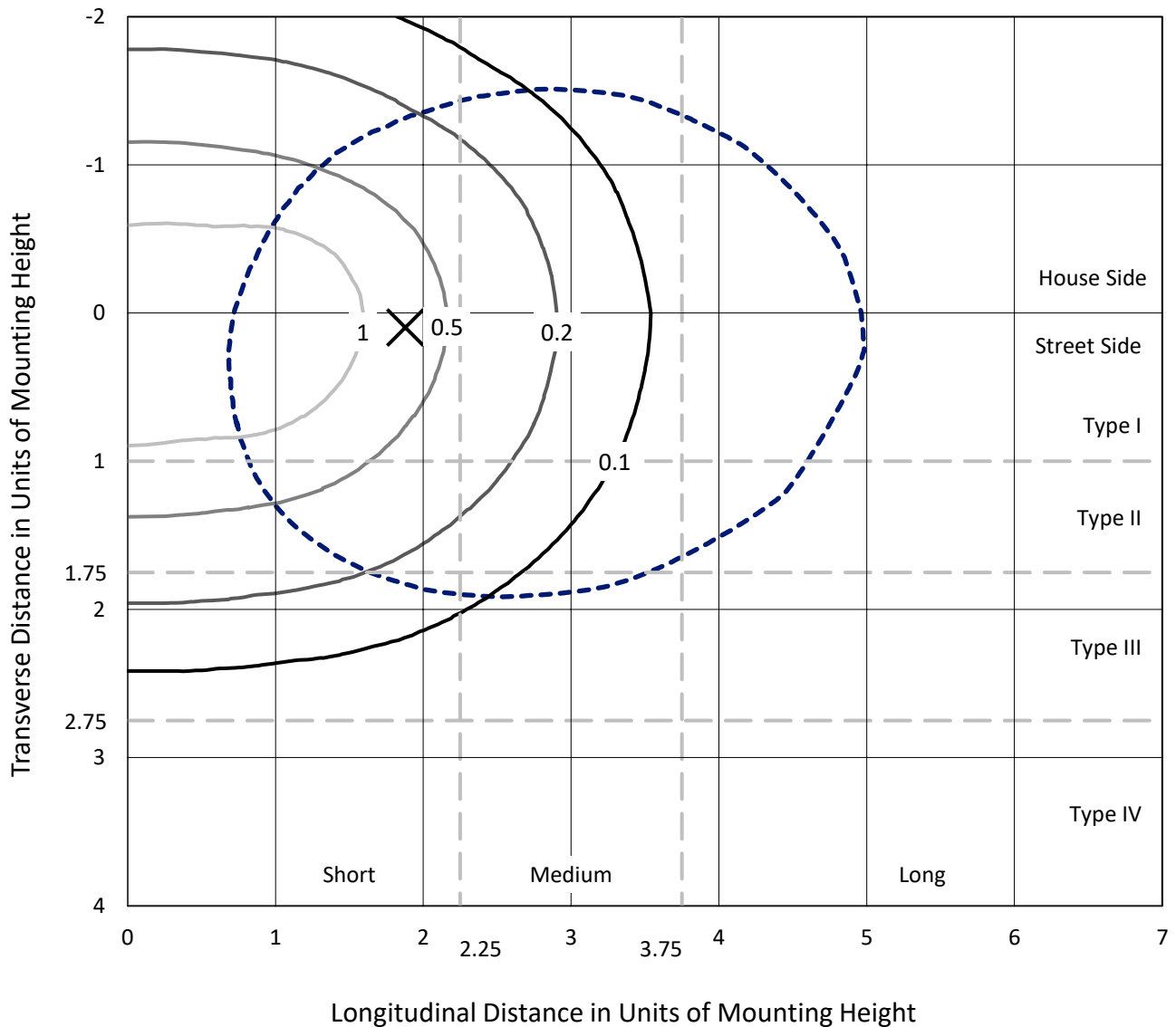
Lumens per Lamp: N/A
Luminaire Lumens: 3535 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 41
Input Voltage (V): 120
Input Current (A_{in}): 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

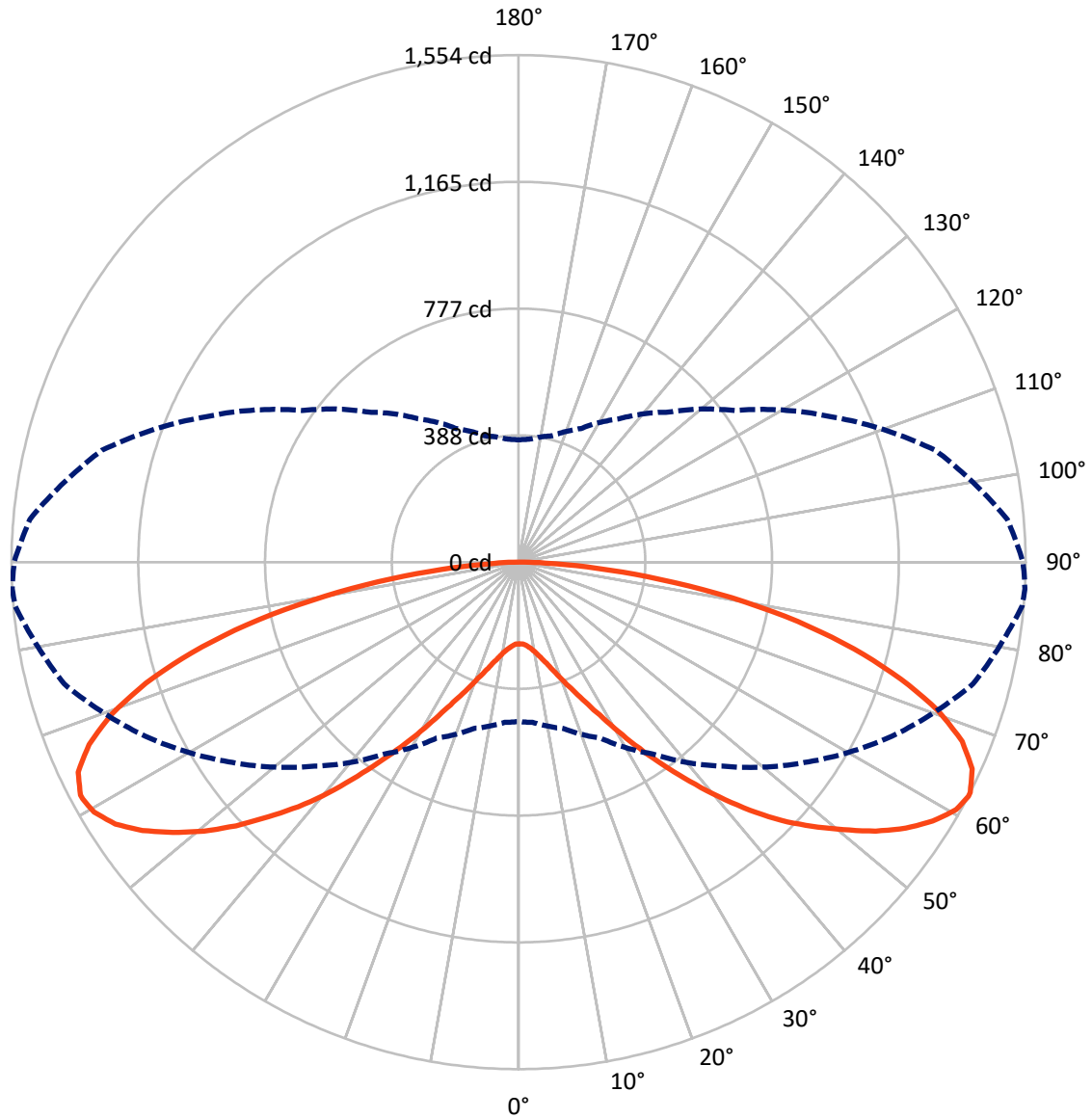
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 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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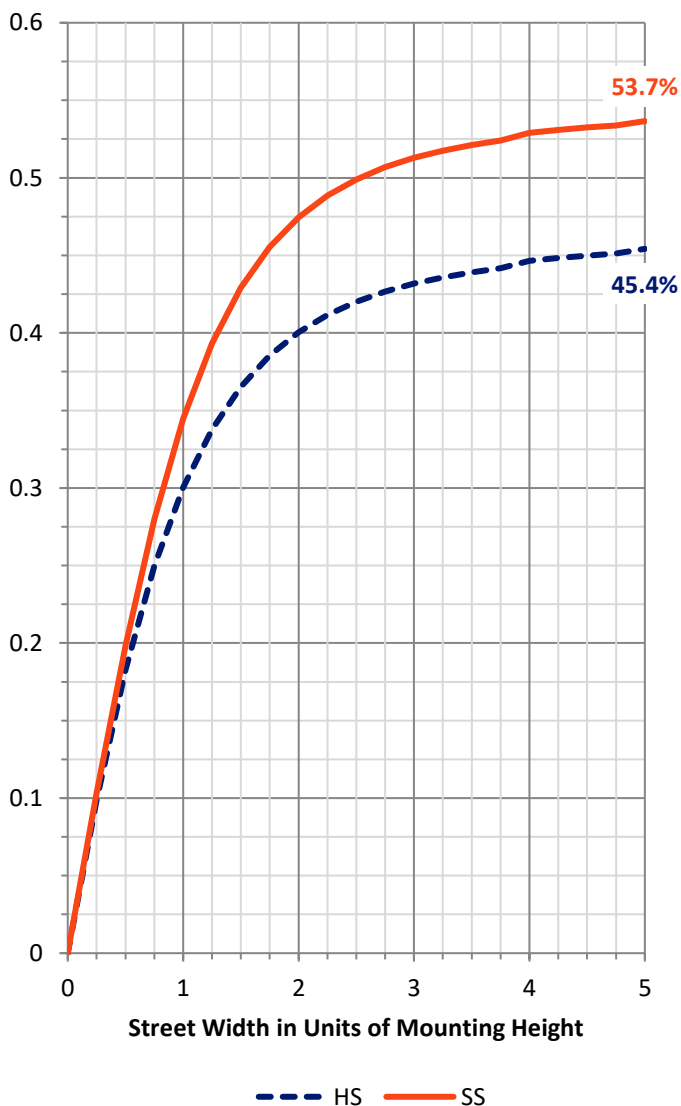
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1627.6 | 0.0 | 1627.6 |
| | % Fixture | 46.0 | 0.0 | 46.0 |
| Street Side | Lumens | 1907.4 | 0.0 | 1907.4 |
| | % Fixture | 54.0 | 0.0 | 54.0 |
| Total | Lumens | 3535.0 | 0.0 | 3535.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 25.2 | 0.7 |
| 10°-20° | 88.8 | 2.5 |
| 20°-30° | 189.9 | 5.4 |
| 30°-40° | 350.0 | 9.9 |
| 40°-50° | 558.2 | 15.8 |
| 50°-60° | 759.1 | 21.5 |
| 60°-70° | 822.4 | 23.3 |
| 70°-80° | 587.7 | 16.6 |
| 80°-90° | 153.6 | 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° | 3535.0 | 100.0 |
| 0°-180° | 3535.0 | 100.0 |



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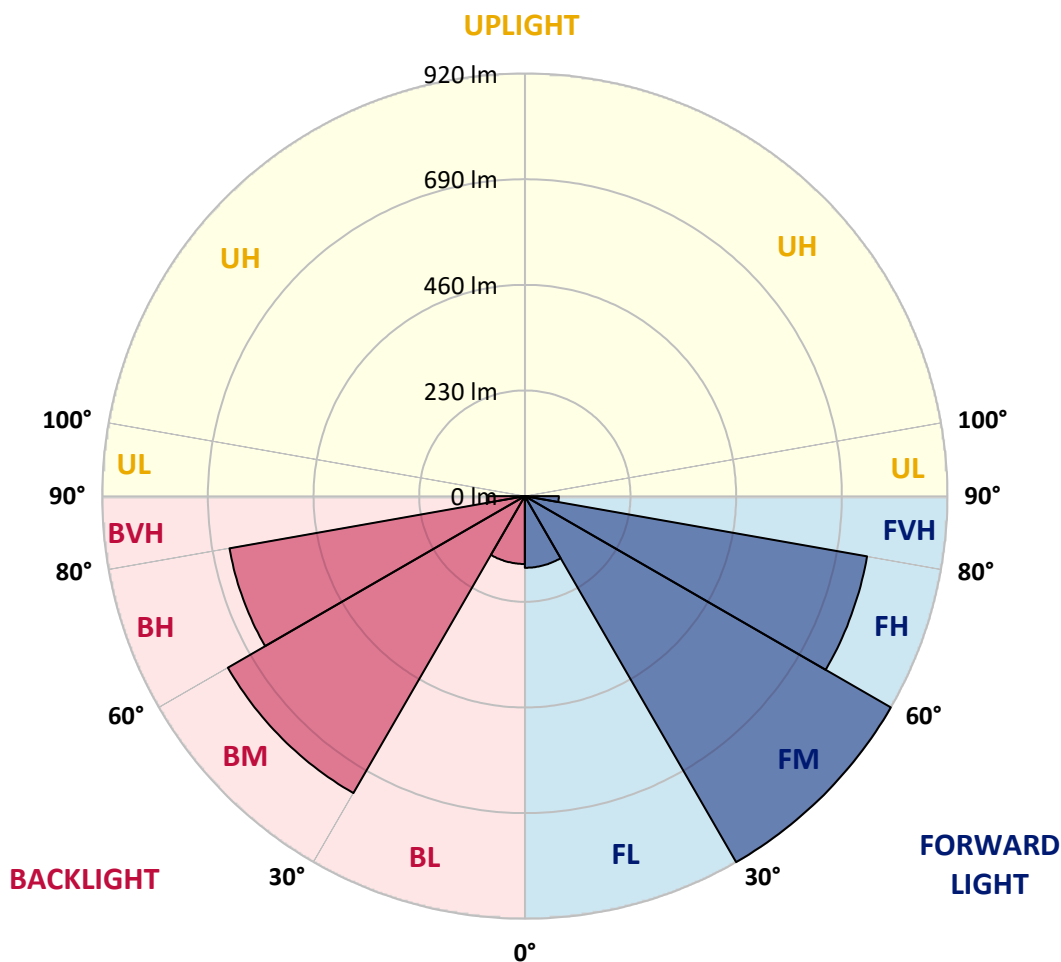
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 156.1 | 4.4 | | | |
| FM (30°-60°) | 920.5 | 26.0 | | | |
| FH (60°-80°) | 756.9 | 21.4 | | | G1/1800 |
| FVH (80°-90°) | 74.0 | 2.1 | | | G1/100 |
| BL (0°-30°) | 147.8 | 4.2 | B1/500 | | |
| BM (30°-60°) | 746.9 | 21.1 | B1/1000 | | |
| BH (60°-80°) | 653.3 | 18.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 79.6 | 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° | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 |
| 2.5° | 250.7 | 250.7 | 250.7 | 250.7 | 250.7 | 250.7 | 250.7 | 250.7 | 250.7 | 251.3 | 251.3 |
| 5° | 252.5 | 251.9 | 251.9 | 252.5 | 253.0 | 253.6 | 254.7 | 255.3 | 256.4 | 257.6 | 257.0 |
| 7.5° | 257.6 | 257.6 | 257.6 | 258.2 | 259.9 | 261.0 | 262.7 | 264.4 | 266.1 | 267.3 | 266.7 |
| 10° | 265.6 | 265.6 | 265.6 | 266.7 | 268.4 | 271.8 | 274.7 | 277.5 | 279.2 | 280.4 | 280.9 |
| 12.5° | 274.1 | 274.1 | 275.2 | 277.5 | 280.9 | 285.5 | 290.6 | 294.6 | 297.5 | 298.6 | 299.2 |
| 15° | 286.1 | 286.6 | 288.9 | 291.2 | 295.8 | 302.6 | 311.2 | 316.8 | 319.7 | 322.0 | 321.4 |
| 17.5° | 304.3 | 303.7 | 305.5 | 310.6 | 315.7 | 325.4 | 335.7 | 345.3 | 351.0 | 351.0 | 351.0 |
| 20° | 324.8 | 324.3 | 325.4 | 329.4 | 337.9 | 351.0 | 367.0 | 380.1 | 386.4 | 385.2 | 386.4 |
| 22.5° | 347.6 | 347.6 | 348.8 | 352.2 | 360.7 | 379.5 | 401.8 | 421.1 | 429.7 | 426.8 | 425.7 |
| 25° | 372.7 | 372.7 | 374.4 | 377.3 | 389.2 | 412.0 | 441.7 | 469.6 | 478.1 | 475.3 | 474.1 |
| 27.5° | 401.8 | 399.5 | 402.9 | 405.7 | 420.6 | 450.8 | 489.5 | 524.9 | 543.7 | 534.0 | 530.6 |
| 30° | 432.5 | 430.8 | 431.4 | 437.1 | 454.2 | 492.9 | 539.1 | 586.4 | 612.6 | 606.3 | 601.2 |
| 32.5° | 459.3 | 460.5 | 462.2 | 471.9 | 491.2 | 538.0 | 591.5 | 653.6 | 683.3 | 681.6 | 680.4 |
| 35° | 489.5 | 489.5 | 492.9 | 502.1 | 530.6 | 585.8 | 650.8 | 720.9 | 764.8 | 766.5 | 763.1 |
| 37.5° | 513.5 | 513.5 | 518.6 | 530.6 | 564.2 | 629.7 | 709.5 | 792.1 | 845.1 | 854.2 | 851.4 |
| 40° | 534.5 | 533.4 | 539.1 | 556.8 | 596.1 | 676.4 | 767.0 | 862.8 | 934.0 | 949.4 | 945.4 |
| 42.5° | 547.1 | 548.2 | 556.2 | 578.4 | 626.9 | 717.5 | 823.5 | 929.5 | 1012.7 | 1038.9 | 1038.9 |
| 45° | 556.2 | 557.3 | 569.3 | 595.5 | 654.8 | 757.9 | 874.8 | 997.8 | 1089.6 | 1127.8 | 1129.5 |
| 47.5° | 560.2 | 561.9 | 576.7 | 608.6 | 678.1 | 795.0 | 924.3 | 1059.4 | 1158.6 | 1212.7 | 1209.3 |
| 50° | 560.2 | 562.5 | 580.1 | 618.3 | 699.2 | 826.3 | 971.1 | 1118.1 | 1228.6 | 1289.1 | 1288.5 |
| 52.5° | 556.8 | 559.6 | 581.3 | 625.7 | 716.9 | 856.5 | 1012.7 | 1168.2 | 1295.9 | 1367.1 | 1369.4 |
| 55° | 549.9 | 553.3 | 578.4 | 630.3 | 730.6 | 880.5 | 1046.3 | 1215.0 | 1354.0 | 1434.4 | 1439.5 |
| 57.5° | 536.3 | 539.7 | 568.2 | 626.3 | 735.7 | 893.0 | 1070.8 | 1248.0 | 1401.3 | 1495.3 | 1496.5 |
| 60° | 513.5 | 517.4 | 548.2 | 613.2 | 730.6 | 893.6 | 1077.1 | 1262.8 | 1433.2 | 1536.4 | 1540.4 |
| 62° | 488.4 | 492.9 | 527.7 | 594.9 | 717.5 | 884.4 | 1070.2 | 1262.3 | 1441.8 | 1548.3 | 1553.5 |
| 62.5° | 482.1 | 486.1 | 521.4 | 588.7 | 712.3 | 879.9 | 1066.2 | 1259.4 | 1440.6 | 1548.9 | 1552.9 |
| 65° | 443.4 | 447.4 | 483.3 | 554.5 | 681.0 | 852.0 | 1037.2 | 1234.3 | 1420.1 | 1526.1 | 1527.3 |
| 67.5° | 400.6 | 404.6 | 440.5 | 507.8 | 636.0 | 805.2 | 988.2 | 1184.8 | 1365.4 | 1457.2 | 1465.7 |
| 70° | 351.0 | 356.7 | 389.8 | 456.5 | 576.7 | 738.0 | 910.7 | 1106.1 | 1278.2 | 1356.3 | 1364.3 |
| 72.5° | 302.0 | 306.0 | 332.2 | 390.9 | 499.8 | 649.7 | 810.4 | 987.0 | 1143.7 | 1217.8 | 1224.7 |
| 75° | 245.0 | 248.5 | 274.1 | 322.5 | 413.7 | 541.4 | 693.0 | 847.4 | 989.9 | 1056.5 | 1061.7 |
| 77.5° | 193.2 | 194.3 | 212.6 | 251.3 | 321.4 | 424.6 | 549.9 | 671.9 | 801.2 | 861.6 | 875.3 |
| 80° | 136.2 | 141.9 | 154.4 | 181.2 | 225.7 | 304.3 | 394.9 | 499.2 | 589.8 | 657.6 | 662.2 |
| 82.5° | 88.3 | 89.5 | 97.4 | 107.1 | 139.0 | 192.0 | 251.3 | 315.7 | 396.6 | 440.5 | 437.1 |
| 85° | 46.2 | 46.2 | 49.0 | 51.9 | 62.7 | 86.1 | 121.4 | 166.4 | 213.7 | 246.8 | 242.2 |
| 87.5° | 8.0 | 7.4 | 8.0 | 7.4 | 9.7 | 13.7 | 25.6 | 41.6 | 62.7 | 74.1 | 81.5 |
| 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° | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 |
| 2.5° | 251.3 | 251.3 | 251.9 | 253.0 | 253.0 | 253.6 | 254.2 | 254.2 | 254.7 | 255.3 | 255.3 |
| 5° | 258.2 | 258.2 | 258.7 | 259.9 | 260.4 | 260.4 | 261.0 | 261.6 | 261.6 | 261.6 | 262.1 |
| 7.5° | 267.3 | 267.8 | 268.4 | 269.0 | 269.6 | 269.6 | 271.3 | 270.7 | 270.7 | 270.7 | 270.7 |
| 10° | 280.4 | 281.5 | 281.5 | 281.5 | 281.5 | 280.9 | 281.5 | 280.9 | 279.8 | 279.8 | 279.2 |
| 12.5° | 299.8 | 299.8 | 298.6 | 297.5 | 295.8 | 295.2 | 294.6 | 292.9 | 290.6 | 289.5 | 289.5 |
| 15° | 322.0 | 320.8 | 318.6 | 316.3 | 313.4 | 311.2 | 307.2 | 304.9 | 302.0 | 300.9 | 300.9 |
| 17.5° | 350.5 | 348.8 | 342.5 | 337.9 | 331.1 | 326.0 | 321.4 | 316.8 | 313.4 | 312.3 | 311.7 |
| 20° | 383.0 | 379.0 | 369.8 | 359.6 | 350.5 | 342.5 | 333.9 | 328.2 | 324.8 | 322.0 | 321.4 |
| 22.5° | 424.0 | 418.3 | 402.3 | 386.4 | 369.8 | 358.5 | 347.6 | 339.6 | 333.4 | 330.5 | 329.4 |
| 25° | 468.4 | 459.9 | 439.4 | 415.4 | 392.6 | 375.0 | 361.3 | 350.5 | 343.1 | 338.5 | 337.4 |
| 27.5° | 524.9 | 512.3 | 482.1 | 446.2 | 416.0 | 393.8 | 375.0 | 362.4 | 352.8 | 345.9 | 344.8 |
| 30° | 591.0 | 577.9 | 527.7 | 480.4 | 442.2 | 410.9 | 390.4 | 373.8 | 361.9 | 353.9 | 352.2 |
| 32.5° | 669.6 | 645.7 | 588.1 | 521.4 | 469.0 | 430.8 | 404.6 | 385.2 | 370.4 | 361.3 | 359.0 |
| 35° | 749.4 | 724.9 | 649.1 | 564.7 | 497.5 | 451.3 | 420.0 | 396.6 | 380.1 | 368.7 | 367.6 |
| 37.5° | 838.9 | 809.2 | 720.3 | 613.8 | 528.3 | 473.0 | 434.2 | 407.5 | 387.5 | 375.5 | 374.4 |
| 40° | 935.2 | 905.0 | 796.7 | 670.2 | 564.7 | 494.1 | 447.9 | 417.7 | 395.5 | 382.4 | 380.7 |
| 42.5° | 1029.8 | 993.9 | 874.2 | 726.6 | 601.8 | 517.4 | 463.9 | 428.5 | 402.3 | 388.7 | 386.4 |
| 45° | 1111.8 | 1080.5 | 952.8 | 791.6 | 644.5 | 541.4 | 479.8 | 438.8 | 409.7 | 394.4 | 392.1 |
| 47.5° | 1204.7 | 1171.1 | 1038.9 | 851.4 | 685.6 | 568.7 | 495.2 | 447.9 | 416.0 | 399.5 | 397.8 |
| 50° | 1286.8 | 1256.6 | 1115.2 | 906.7 | 724.9 | 594.4 | 509.5 | 456.5 | 421.1 | 403.5 | 401.2 |
| 52.5° | 1361.4 | 1334.6 | 1185.3 | 958.5 | 758.5 | 618.3 | 522.6 | 462.7 | 424.6 | 405.2 | 402.3 |
| 55° | 1436.7 | 1401.9 | 1246.3 | 1004.1 | 785.3 | 637.1 | 533.4 | 465.6 | 424.0 | 404.0 | 401.2 |
| 57.5° | 1493.1 | 1460.0 | 1290.8 | 1036.6 | 805.2 | 649.7 | 539.7 | 465.0 | 420.6 | 398.9 | 395.5 |
| 60° | 1531.2 | 1494.8 | 1317.0 | 1052.6 | 812.1 | 653.6 | 539.7 | 459.9 | 412.0 | 388.7 | 385.2 |
| 62° | 1545.5 | 1503.3 | 1322.1 | 1054.8 | 809.2 | 649.7 | 535.7 | 451.3 | 400.6 | 377.8 | 374.4 |
| 62.5° | 1546.1 | 1502.8 | 1320.4 | 1053.1 | 807.5 | 647.9 | 533.4 | 448.5 | 397.8 | 374.4 | 371.0 |
| 65° | 1521.0 | 1477.7 | 1299.9 | 1035.5 | 788.1 | 632.6 | 517.4 | 432.0 | 377.8 | 355.0 | 351.6 |
| 67.5° | 1449.2 | 1416.1 | 1250.9 | 994.4 | 755.1 | 604.1 | 494.1 | 408.0 | 354.5 | 330.5 | 328.8 |
| 70° | 1349.5 | 1319.3 | 1171.1 | 932.3 | 707.2 | 563.0 | 459.3 | 376.1 | 324.8 | 303.2 | 299.2 |
| 72.5° | 1224.1 | 1184.8 | 1057.7 | 849.1 | 638.3 | 506.6 | 413.7 | 336.2 | 290.6 | 271.3 | 269.0 |
| 75° | 1068.5 | 1021.2 | 915.2 | 739.1 | 555.6 | 438.8 | 360.7 | 291.8 | 251.3 | 234.8 | 236.5 |
| 77.5° | 870.2 | 848.0 | 739.7 | 589.2 | 452.5 | 363.0 | 295.8 | 247.3 | 212.6 | 198.9 | 197.7 |
| 80° | 657.1 | 636.0 | 560.2 | 447.4 | 341.9 | 274.7 | 229.1 | 194.9 | 171.0 | 159.0 | 158.4 |
| 82.5° | 445.6 | 425.7 | 368.1 | 300.3 | 233.1 | 194.3 | 165.8 | 143.6 | 128.8 | 123.1 | 123.1 |
| 85° | 245.0 | 227.9 | 194.9 | 162.4 | 131.6 | 111.1 | 107.1 | 95.7 | 91.7 | 90.6 | 91.7 |
| 87.5° | 76.4 | 75.8 | 64.4 | 53.0 | 46.2 | 46.7 | 42.2 | 43.3 | 41.0 | 40.5 | 43.3 |
| 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)