

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: P672311

Luminaire Tested: **CCP-SA-1C-835-U-T3R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672311
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1C-835-U-T3R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ T3R distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

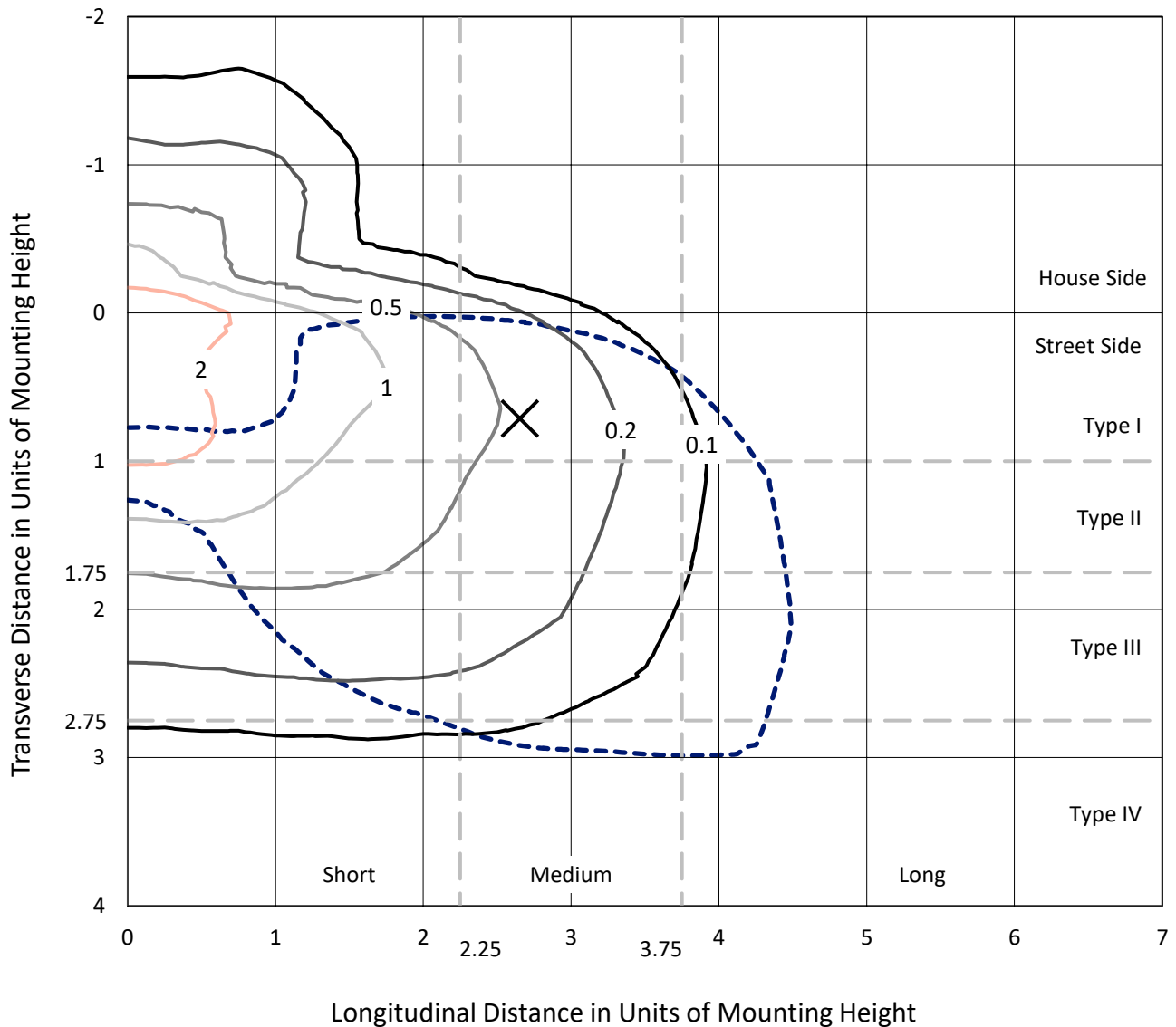
Lumens per Lamp: N/A
Luminaire Lumens: 3786.5 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 32
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

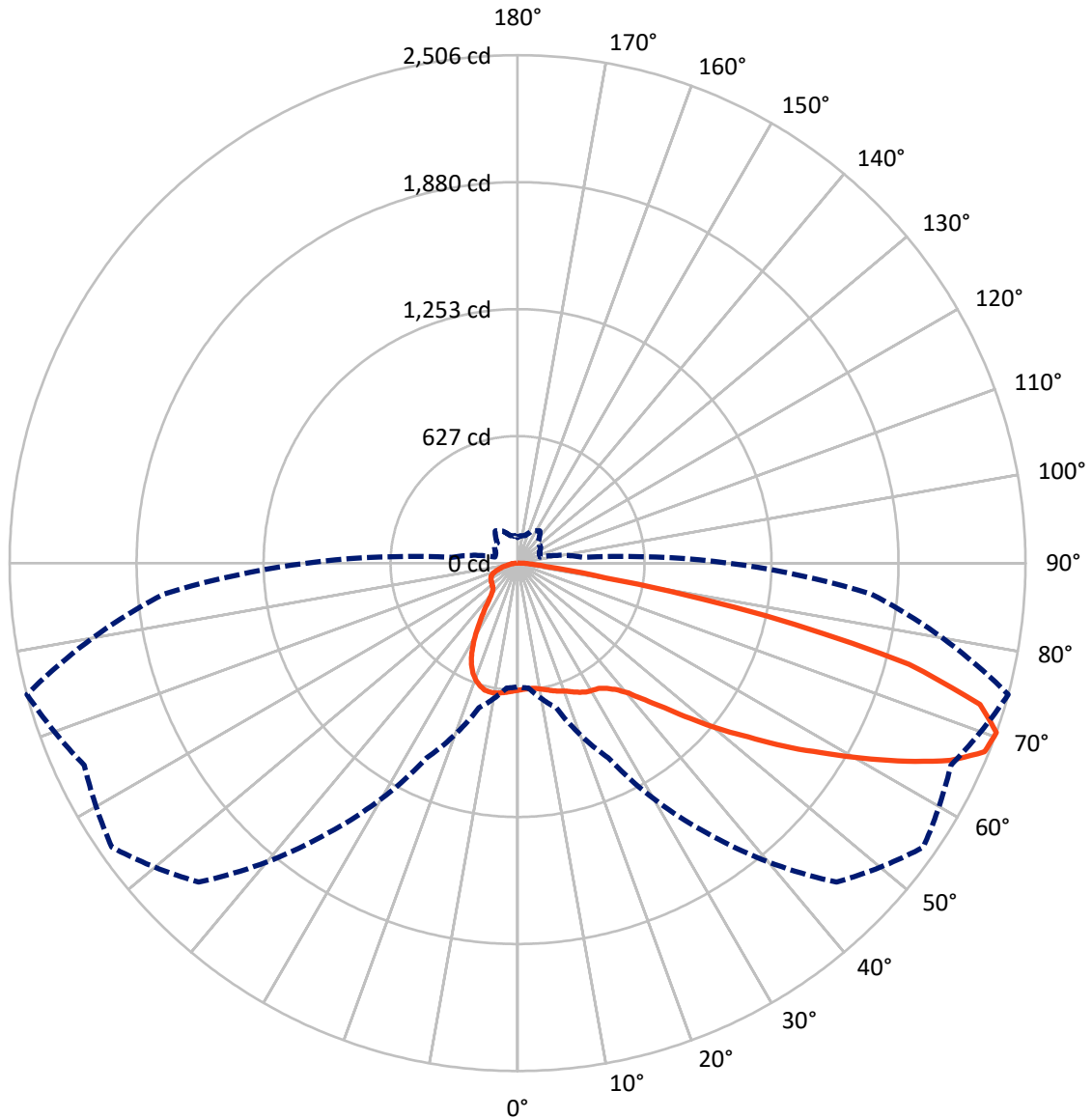
× Max cd
 - - - 1/2 Max cd



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 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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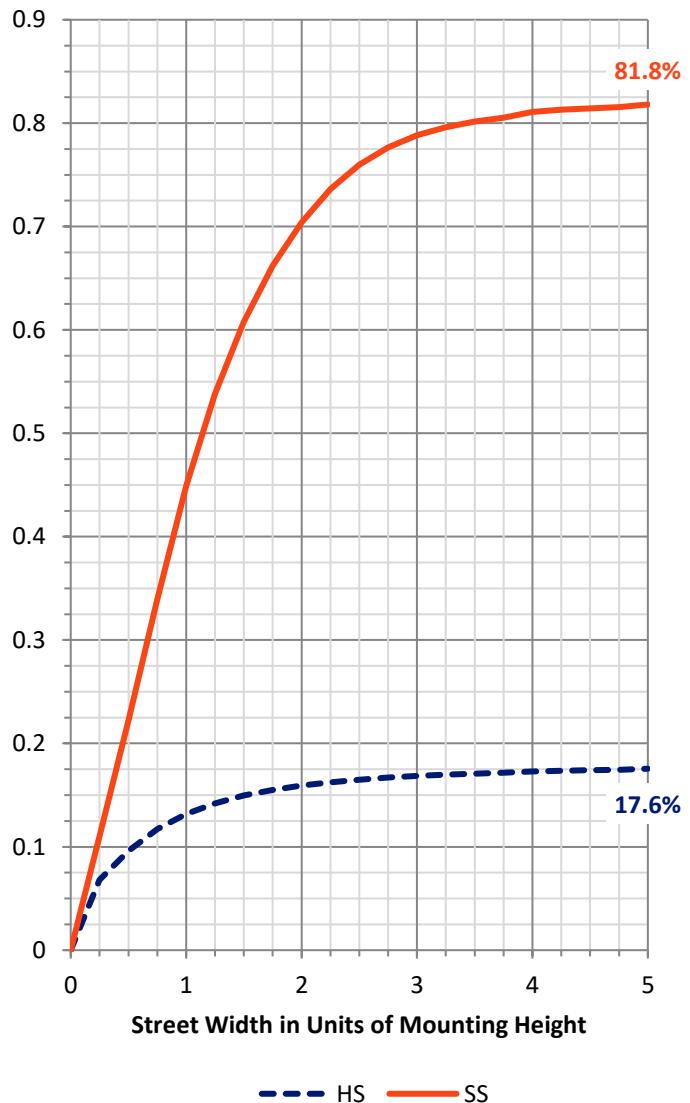
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 673.7 | 0.0 | 673.7 |
| | % Fixture | 17.8 | 0.0 | 17.8 |
| Street Side | Lumens | 3112.9 | 0.0 | 3112.9 |
| | % Fixture | 82.2 | 0.0 | 82.2 |
| Total | Lumens | 3786.5 | 0.0 | 3786.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.3 | 1.5 |
| 10°-20° | 150.4 | 4.0 |
| 20°-30° | 253.3 | 6.7 |
| 30°-40° | 384.8 | 10.2 |
| 40°-50° | 551.3 | 14.6 |
| 50°-60° | 730.9 | 19.3 |
| 60°-70° | 914.6 | 24.2 |
| 70°-80° | 667.9 | 17.6 |
| 80°-90° | 77.0 | 2.0 |
| 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° | 3786.5 | 100.0 |
| 0°-180° | 3786.5 | 100.0 |



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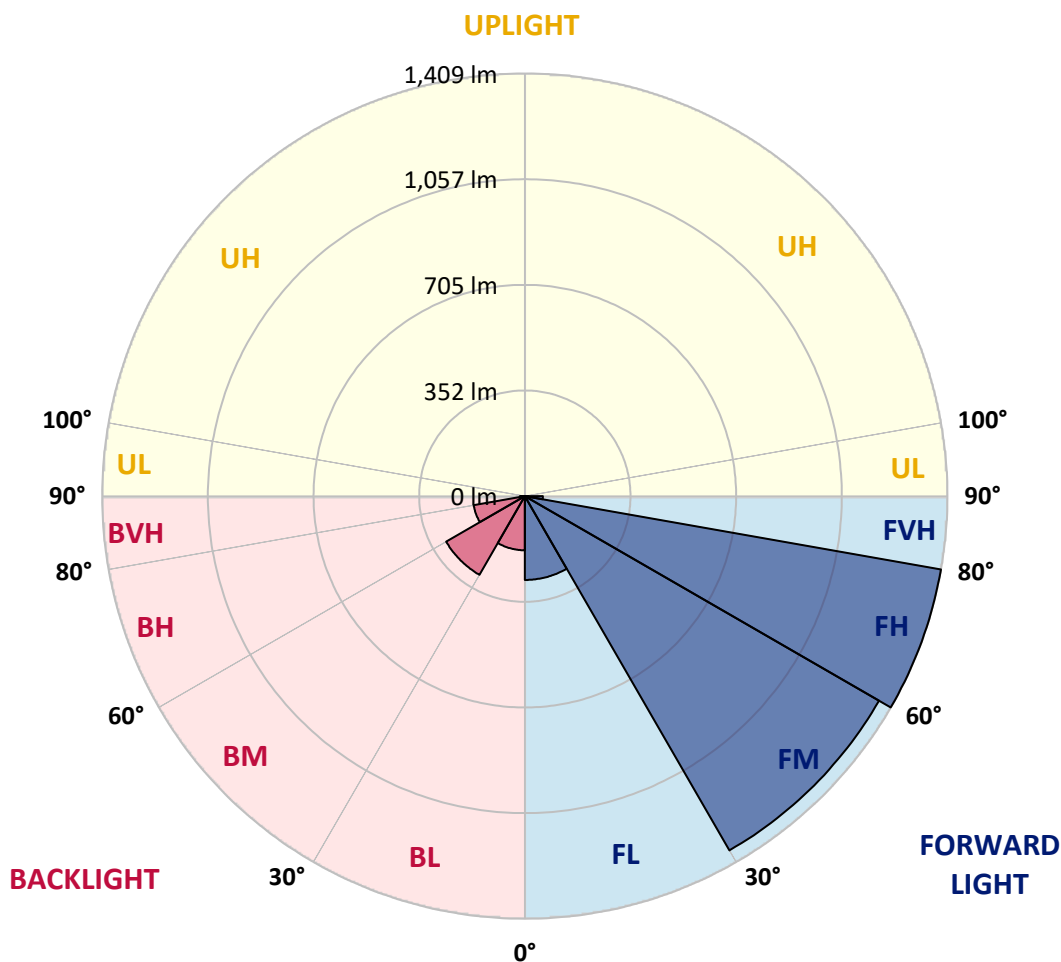
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 279.5 | 7.4 | | | |
| FM (30°-60°) | 1364.0 | 36.0 | | | |
| FH (60°-80°) | 1409.2 | 37.2 | | | G1/1800 |
| FVH (80°-90°) | 60.1 | 1.6 | | | G1/100 |
| BL (0°-30°) | 180.6 | 4.8 | B1/500 | | |
| BM (30°-60°) | 302.9 | 8.0 | B1/1000 | | |
| BH (60°-80°) | 173.3 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 16.9 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 627.2 | 627.2 | 627.2 | 627.2 | 627.2 | 627.2 | 627.2 | 627.2 | 627.2 | 627.2 | 627.2 |
| 2.5° | 592.9 | 596.2 | 599.2 | 602.2 | 604.6 | 611.1 | 612.5 | 619.6 | 621.5 | 623.1 | 625.3 |
| 5° | 559.6 | 562.1 | 565.1 | 570.0 | 575.2 | 586.9 | 595.1 | 610.6 | 619.3 | 622.0 | 629.7 |
| 7.5° | 541.7 | 542.5 | 546.6 | 550.7 | 556.7 | 568.1 | 579.3 | 603.5 | 621.0 | 623.9 | 640.3 |
| 10° | 528.6 | 529.7 | 533.5 | 539.2 | 545.2 | 555.8 | 569.7 | 598.6 | 626.9 | 631.6 | 654.7 |
| 12.5° | 524.0 | 523.4 | 527.8 | 531.6 | 540.0 | 553.4 | 567.8 | 598.9 | 635.1 | 641.7 | 675.7 |
| 15° | 542.5 | 538.9 | 541.7 | 540.3 | 543.0 | 556.1 | 573.3 | 604.9 | 645.2 | 653.4 | 697.5 |
| 17.5° | 583.4 | 580.4 | 578.4 | 566.7 | 559.1 | 566.5 | 582.8 | 613.3 | 655.8 | 664.5 | 717.1 |
| 20° | 644.4 | 635.9 | 628.9 | 609.2 | 588.0 | 585.5 | 597.0 | 621.8 | 665.9 | 674.4 | 737.8 |
| 22.5° | 713.9 | 707.1 | 695.6 | 661.3 | 628.3 | 612.0 | 615.0 | 637.3 | 680.6 | 689.9 | 761.5 |
| 25° | 801.6 | 801.3 | 777.9 | 731.6 | 681.7 | 648.7 | 642.5 | 662.1 | 697.2 | 706.2 | 781.2 |
| 27.5° | 901.6 | 894.8 | 867.0 | 807.3 | 744.7 | 694.2 | 679.5 | 687.4 | 710.6 | 719.9 | 797.0 |
| 30° | 987.1 | 988.0 | 959.6 | 894.5 | 811.7 | 738.7 | 710.9 | 705.7 | 719.3 | 728.6 | 811.7 |
| 32.5° | 1078.7 | 1074.1 | 1048.2 | 981.2 | 884.2 | 786.3 | 731.0 | 718.8 | 728.3 | 737.0 | 832.1 |
| 35° | 1164.8 | 1159.6 | 1137.3 | 1065.1 | 964.0 | 838.9 | 758.3 | 739.2 | 749.6 | 759.1 | 857.2 |
| 37.5° | 1246.8 | 1247.6 | 1222.3 | 1153.4 | 1041.4 | 901.0 | 798.6 | 770.0 | 781.2 | 791.8 | 895.3 |
| 40° | 1318.5 | 1314.4 | 1294.8 | 1232.6 | 1121.7 | 964.3 | 844.1 | 812.0 | 833.7 | 843.6 | 943.6 |
| 42.5° | 1341.4 | 1341.1 | 1348.7 | 1310.6 | 1206.2 | 1039.5 | 900.8 | 877.3 | 908.1 | 922.8 | 1002.7 |
| 45° | 1321.5 | 1327.5 | 1371.6 | 1370.5 | 1290.7 | 1125.8 | 978.2 | 956.9 | 1001.3 | 1017.9 | 1074.9 |
| 47.5° | 1301.8 | 1310.8 | 1370.8 | 1404.8 | 1366.4 | 1220.9 | 1073.2 | 1057.4 | 1121.2 | 1145.2 | 1149.8 |
| 50° | 1273.2 | 1281.7 | 1353.1 | 1409.7 | 1412.7 | 1317.1 | 1196.4 | 1176.5 | 1258.5 | 1283.0 | 1231.3 |
| 52.5° | 1241.4 | 1247.9 | 1321.7 | 1406.2 | 1434.8 | 1392.3 | 1317.1 | 1311.4 | 1405.7 | 1425.5 | 1314.1 |
| 55° | 1065.3 | 1093.1 | 1275.7 | 1398.6 | 1450.1 | 1449.8 | 1434.5 | 1453.3 | 1566.1 | 1595.8 | 1406.5 |
| 57.5° | 964.3 | 979.0 | 1146.0 | 1394.2 | 1478.7 | 1502.9 | 1555.8 | 1596.1 | 1737.5 | 1764.2 | 1508.4 |
| 60° | 931.3 | 944.4 | 1080.9 | 1389.0 | 1535.6 | 1586.0 | 1674.3 | 1739.7 | 1921.7 | 1954.4 | 1622.3 |
| 62.5° | 901.3 | 917.1 | 1054.4 | 1347.9 | 1604.6 | 1717.6 | 1815.7 | 1895.0 | 2116.0 | 2154.7 | 1735.6 |
| 65° | 840.3 | 851.5 | 1005.9 | 1313.3 | 1670.0 | 1905.4 | 2019.8 | 2066.1 | 2304.3 | 2347.9 | 1810.8 |
| 67.5° | 734.8 | 745.5 | 896.7 | 1233.7 | 1712.5 | 2100.7 | 2243.0 | 2243.2 | 2449.8 | 2485.4 | 1826.6 |
| 70° | 610.9 | 619.0 | 739.2 | 1060.4 | 1623.9 | 2226.1 | 2444.3 | 2359.0 | 2490.9 | 2506.4 | 1751.4 |
| 72.5° | 436.8 | 443.8 | 541.4 | 783.9 | 1331.5 | 2124.4 | 2490.1 | 2354.1 | 2391.2 | 2386.3 | 1537.5 |
| 75° | 269.2 | 282.8 | 331.6 | 478.5 | 827.5 | 1671.6 | 2241.0 | 2133.1 | 2007.8 | 1994.2 | 1157.7 |
| 77.5° | 175.5 | 182.6 | 224.2 | 282.3 | 365.1 | 959.6 | 1702.1 | 1599.4 | 1267.8 | 1252.0 | 622.3 |
| 80° | 105.4 | 117.2 | 146.9 | 177.4 | 165.4 | 367.0 | 971.9 | 794.5 | 447.9 | 443.0 | 191.3 |
| 82.5° | 56.7 | 67.3 | 103.5 | 109.8 | 92.9 | 129.7 | 352.0 | 258.3 | 143.3 | 141.7 | 71.7 |
| 85° | 45.0 | 50.1 | 74.4 | 69.5 | 52.6 | 65.7 | 137.3 | 107.6 | 73.6 | 71.9 | 27.0 |
| 87.5° | 27.2 | 34.3 | 56.4 | 46.9 | 26.2 | 23.7 | 62.9 | 51.0 | 34.6 | 32.2 | 10.6 |
| 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° | 627.2 | 627.2 | 627.2 | 627.2 | 627.2 | 627.2 | 627.2 | 627.2 | 627.2 | 627.2 | 627.2 |
| 2.5° | 629.4 | 630.8 | 632.1 | 629.4 | 630.5 | 629.1 | 629.1 | 629.1 | 625.6 | 624.5 | 627.8 |
| 5° | 635.4 | 637.3 | 638.4 | 629.9 | 624.8 | 617.1 | 610.9 | 601.3 | 595.9 | 592.3 | 592.3 |
| 7.5° | 647.7 | 649.8 | 644.9 | 626.1 | 607.9 | 587.4 | 566.5 | 549.0 | 536.5 | 531.0 | 532.7 |
| 10° | 665.6 | 666.5 | 650.1 | 615.5 | 576.5 | 538.7 | 509.0 | 485.8 | 470.3 | 462.4 | 461.3 |
| 12.5° | 686.6 | 683.1 | 651.2 | 592.1 | 534.3 | 483.4 | 447.1 | 417.1 | 397.3 | 389.6 | 385.8 |
| 15° | 707.3 | 698.9 | 647.1 | 564.0 | 486.4 | 425.0 | 378.7 | 350.4 | 338.1 | 334.6 | 333.2 |
| 17.5° | 725.9 | 710.0 | 633.5 | 523.7 | 430.8 | 356.9 | 322.9 | 312.8 | 314.2 | 317.4 | 318.8 |
| 20° | 742.7 | 718.5 | 613.9 | 475.7 | 361.3 | 303.8 | 295.4 | 304.6 | 312.2 | 317.2 | 318.0 |
| 22.5° | 761.3 | 726.7 | 586.6 | 417.4 | 304.3 | 279.3 | 289.4 | 300.0 | 307.6 | 312.5 | 313.3 |
| 25° | 775.4 | 726.4 | 548.2 | 348.2 | 268.4 | 272.7 | 284.7 | 294.3 | 300.0 | 303.5 | 303.3 |
| 27.5° | 784.4 | 719.9 | 497.8 | 291.3 | 254.2 | 268.1 | 279.6 | 285.8 | 289.1 | 291.8 | 291.5 |
| 30° | 787.2 | 707.3 | 434.3 | 249.3 | 247.7 | 263.7 | 272.5 | 276.3 | 278.7 | 281.5 | 281.5 |
| 32.5° | 792.6 | 688.0 | 364.3 | 225.9 | 242.8 | 259.4 | 264.6 | 267.6 | 265.7 | 258.8 | 257.5 |
| 35° | 798.6 | 666.5 | 298.1 | 215.0 | 238.1 | 256.4 | 261.3 | 253.4 | 232.7 | 230.0 | 228.9 |
| 37.5° | 810.3 | 646.6 | 242.0 | 207.3 | 237.0 | 258.0 | 262.1 | 230.5 | 213.1 | 204.6 | 203.3 |
| 40° | 830.2 | 626.7 | 204.4 | 201.9 | 238.4 | 265.1 | 251.2 | 219.6 | 190.7 | 174.7 | 171.9 |
| 42.5° | 856.4 | 602.4 | 183.1 | 199.2 | 242.2 | 276.6 | 247.4 | 204.1 | 172.5 | 161.6 | 159.9 |
| 45° | 886.6 | 570.3 | 173.0 | 198.6 | 246.9 | 282.3 | 248.5 | 191.5 | 164.3 | 155.9 | 155.3 |
| 47.5° | 917.9 | 538.7 | 168.7 | 198.1 | 252.6 | 279.8 | 233.5 | 187.7 | 161.0 | 158.6 | 160.2 |
| 50° | 951.7 | 502.7 | 165.1 | 196.7 | 257.2 | 279.8 | 225.3 | 186.9 | 162.1 | 167.6 | 173.0 |
| 52.5° | 983.3 | 472.5 | 161.0 | 192.6 | 259.1 | 274.9 | 222.9 | 189.9 | 163.8 | 162.4 | 164.0 |
| 55° | 1021.8 | 456.9 | 158.8 | 186.9 | 255.6 | 259.9 | 219.9 | 198.1 | 165.1 | 153.9 | 153.9 |
| 57.5° | 1065.6 | 453.7 | 155.6 | 179.3 | 244.1 | 239.2 | 219.6 | 203.0 | 161.6 | 151.2 | 149.3 |
| 60° | 1118.5 | 460.7 | 151.5 | 169.7 | 230.2 | 223.2 | 217.7 | 203.0 | 155.9 | 146.6 | 147.4 |
| 62.5° | 1161.3 | 459.9 | 149.0 | 161.3 | 211.7 | 206.5 | 214.2 | 200.3 | 153.7 | 146.0 | 145.8 |
| 65° | 1171.3 | 442.5 | 142.0 | 150.4 | 188.8 | 186.4 | 210.3 | 193.5 | 150.7 | 143.0 | 140.9 |
| 67.5° | 1137.3 | 403.0 | 131.3 | 136.0 | 164.6 | 164.8 | 203.5 | 184.5 | 146.6 | 141.4 | 137.9 |
| 70° | 1040.6 | 325.9 | 115.5 | 118.5 | 138.4 | 142.0 | 193.5 | 173.8 | 139.8 | 134.3 | 125.9 |
| 72.5° | 870.8 | 234.3 | 97.3 | 98.1 | 110.1 | 119.3 | 176.0 | 159.4 | 129.7 | 116.9 | 107.9 |
| 75° | 644.7 | 155.6 | 79.3 | 78.2 | 82.6 | 97.0 | 150.4 | 143.3 | 116.6 | 97.0 | 92.4 |
| 77.5° | 340.9 | 92.1 | 61.0 | 61.3 | 58.6 | 74.4 | 119.3 | 124.5 | 103.5 | 81.7 | 77.1 |
| 80° | 116.6 | 55.3 | 43.9 | 45.8 | 41.4 | 53.1 | 88.6 | 103.5 | 88.6 | 68.1 | 60.2 |
| 82.5° | 53.4 | 33.8 | 31.3 | 32.7 | 29.7 | 36.0 | 60.8 | 78.5 | 70.6 | 49.6 | 40.1 |
| 85° | 27.0 | 20.2 | 20.2 | 22.1 | 19.6 | 18.5 | 33.5 | 52.0 | 51.8 | 34.1 | 29.4 |
| 87.5° | 11.2 | 9.8 | 9.3 | 10.6 | 9.3 | 7.1 | 9.5 | 18.8 | 27.2 | 20.4 | 13.1 |
| 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)