

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: P677337

Luminaire Tested: **CCW-SA-1A-835-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677337
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-835-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

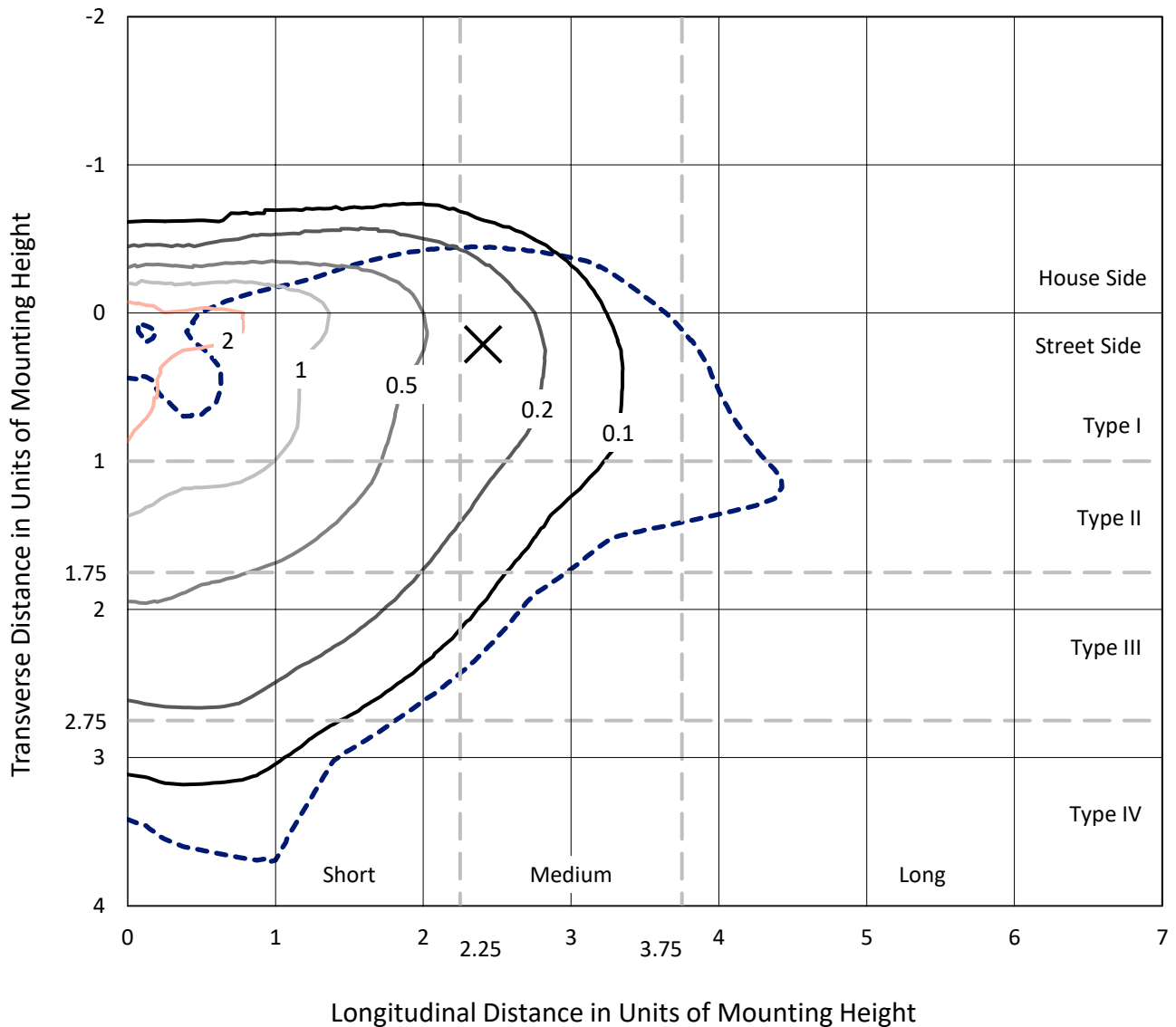
Lumens per Lamp: N/A
Luminaire Lumens: 1635.6 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
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

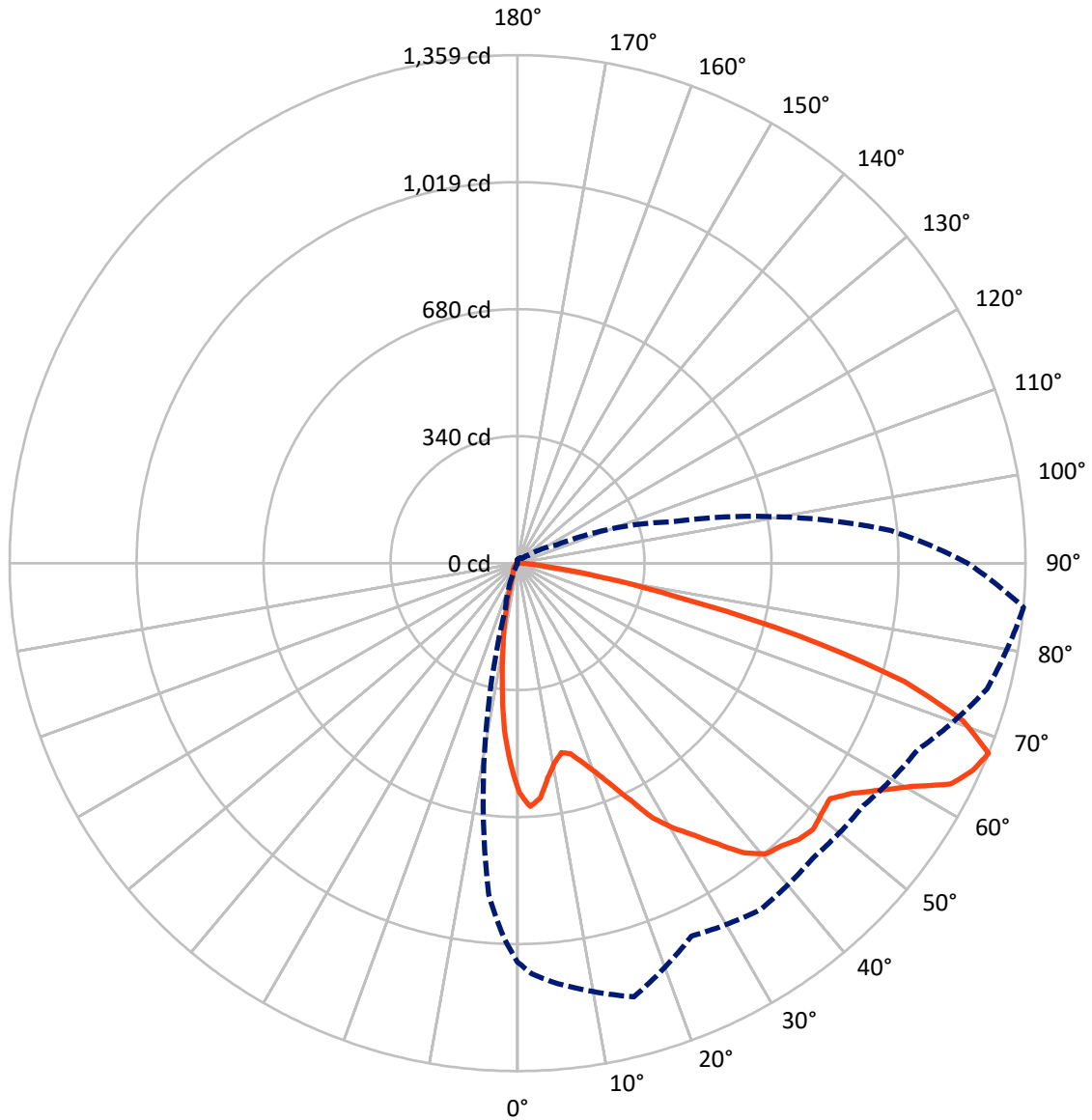
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 284.0 | 0.0 | 284.0 |
| | % Fixture | 17.4 | 0.0 | 17.4 |
| Street Side | Lumens | 1351.6 | 0.0 | 1351.6 |
| | % Fixture | 82.6 | 0.0 | 82.6 |
| Total | Lumens | 1635.6 | 0.0 | 1635.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.7 | 2.9 |
| 10°-20° | 91.6 | 5.6 |
| 20°-30° | 126.8 | 7.8 |
| 30°-40° | 179.2 | 11.0 |
| 40°-50° | 243.9 | 14.9 |
| 50°-60° | 323.1 | 19.8 |
| 60°-70° | 375.1 | 22.9 |
| 70°-80° | 212.4 | 13.0 |
| 80°-90° | 36.7 | 2.2 |
| 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° | 1635.6 | 100.0 |
| 0°-180° | 1635.6 | 100.0 |

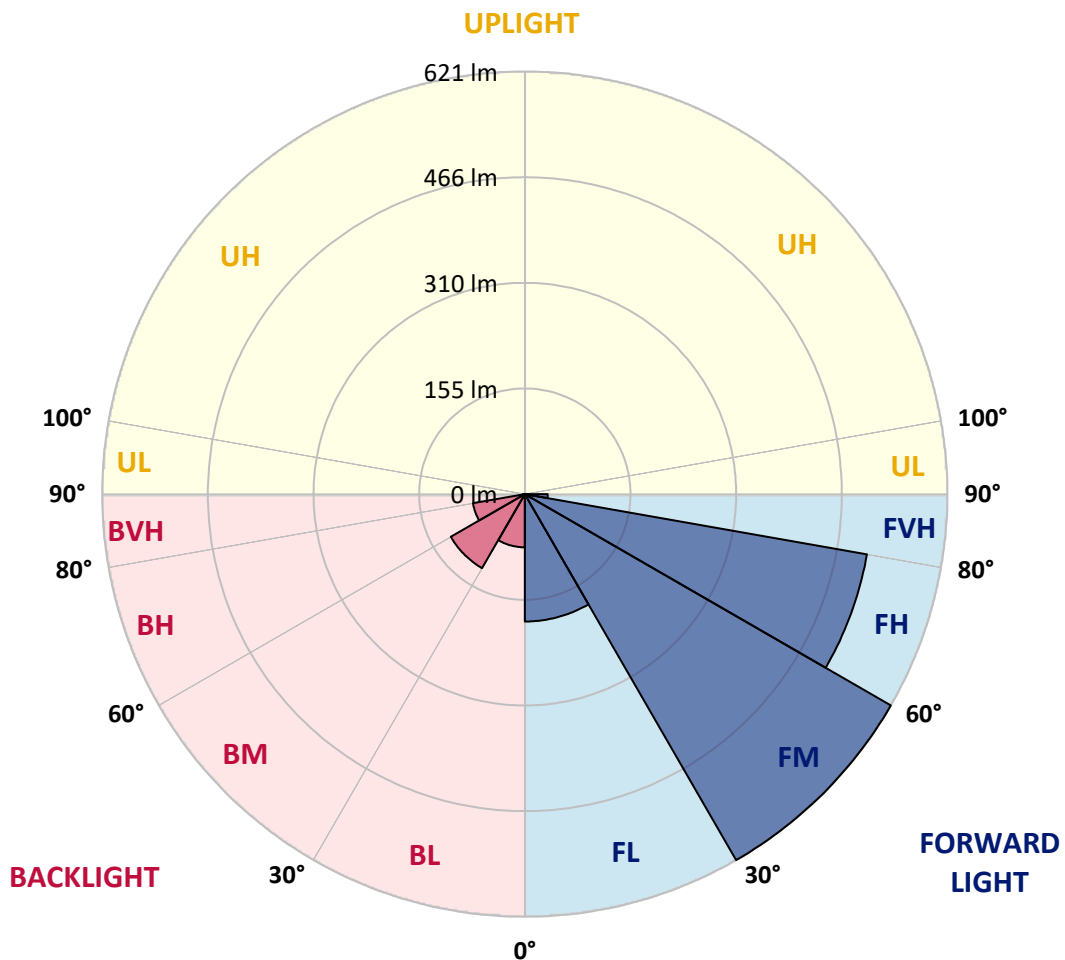


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 187.0 | 11.4 | | | |
| FM (30°-60°) | 620.7 | 38.0 | | | |
| FH (60°-80°) | 510.2 | 31.2 | | | G0/660 |
| FVH (80°-90°) | 33.6 | 2.1 | | | G1/100 |
| BL (0°-30°) | 78.1 | 4.8 | B0/110 | | |
| BM (30°-60°) | 125.5 | 7.7 | B0/220 | | |
| BH (60°-80°) | 77.3 | 4.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 3.1 | 0.2 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 |
| 2.5° | 639.0 | 652.5 | 653.0 | 659.1 | 665.2 | 665.2 | 679.6 | 676.1 | 663.5 | 661.3 | 652.1 |
| 5° | 643.8 | 648.6 | 652.1 | 683.1 | 709.3 | 706.7 | 714.6 | 709.3 | 684.9 | 653.4 | 632.0 |
| 7.5° | 602.3 | 607.5 | 621.5 | 674.4 | 709.8 | 721.5 | 736.4 | 703.6 | 677.9 | 621.1 | 580.0 |
| 10° | 547.3 | 557.3 | 583.1 | 643.4 | 687.0 | 724.6 | 724.6 | 698.4 | 648.6 | 593.1 | 542.9 |
| 12.5° | 516.7 | 536.8 | 550.8 | 611.9 | 668.7 | 694.5 | 693.6 | 679.6 | 647.3 | 577.4 | 520.6 |
| 15° | 521.9 | 527.6 | 557.3 | 604.9 | 642.5 | 641.2 | 656.9 | 652.5 | 629.8 | 591.4 | 528.9 |
| 17.5° | 546.0 | 554.7 | 580.5 | 604.9 | 622.8 | 617.6 | 617.2 | 638.1 | 639.4 | 615.0 | 559.9 |
| 20° | 585.3 | 611.0 | 623.3 | 630.7 | 608.9 | 586.6 | 584.0 | 613.2 | 635.9 | 645.1 | 597.1 |
| 22.5° | 648.2 | 665.2 | 690.1 | 652.1 | 595.3 | 567.4 | 562.1 | 594.4 | 640.3 | 680.9 | 645.1 |
| 25° | 709.8 | 722.9 | 746.9 | 698.0 | 610.6 | 563.4 | 554.3 | 582.2 | 656.9 | 730.7 | 703.2 |
| 27.5° | 774.8 | 786.2 | 788.8 | 731.6 | 618.9 | 555.6 | 544.7 | 582.2 | 670.9 | 756.9 | 772.6 |
| 30° | 814.6 | 828.1 | 830.7 | 761.3 | 632.4 | 562.1 | 556.9 | 584.8 | 680.5 | 779.2 | 822.4 |
| 32.5° | 859.1 | 862.6 | 860.4 | 766.5 | 647.3 | 581.3 | 559.5 | 602.3 | 691.4 | 805.8 | 867.9 |
| 35° | 912.4 | 918.5 | 896.3 | 790.6 | 680.5 | 593.6 | 585.7 | 623.7 | 710.2 | 818.1 | 922.9 |
| 37.5° | 953.0 | 972.2 | 922.0 | 799.7 | 687.0 | 619.3 | 620.6 | 668.3 | 723.3 | 832.9 | 983.6 |
| 40° | 1029.5 | 997.1 | 965.7 | 831.2 | 711.9 | 663.0 | 656.0 | 714.1 | 767.4 | 842.5 | 1023.4 |
| 42.5° | 1071.4 | 1054.4 | 982.7 | 834.2 | 750.4 | 723.3 | 725.0 | 766.1 | 790.6 | 869.6 | 1034.3 |
| 45° | 1081.9 | 1064.0 | 1005.9 | 836.4 | 788.4 | 794.5 | 824.6 | 832.5 | 824.6 | 887.5 | 1054.8 |
| 47.5° | 1108.5 | 1069.6 | 1003.3 | 865.7 | 850.0 | 873.5 | 912.0 | 929.0 | 870.9 | 881.0 | 1064.4 |
| 50° | 1103.3 | 1081.0 | 997.6 | 877.9 | 925.1 | 987.5 | 1013.3 | 1006.3 | 922.5 | 867.4 | 1053.9 |
| 52.5° | 1081.4 | 1057.4 | 1015.1 | 911.1 | 995.4 | 1071.0 | 1106.8 | 1089.3 | 968.3 | 898.0 | 1046.9 |
| 55° | 1113.3 | 1095.0 | 1037.8 | 956.1 | 1048.2 | 1144.3 | 1169.7 | 1156.6 | 1024.7 | 926.4 | 1086.7 |
| 57.5° | 1147.8 | 1143.9 | 1099.3 | 1008.9 | 1110.7 | 1219.9 | 1219.9 | 1203.7 | 1073.6 | 967.4 | 1145.6 |
| 60° | 1197.6 | 1206.4 | 1144.8 | 1043.9 | 1132.1 | 1215.5 | 1278.9 | 1260.1 | 1122.9 | 1039.5 | 1212.5 |
| 62.5° | 1181.5 | 1209.4 | 1203.3 | 1119.0 | 1156.6 | 1236.9 | 1271.4 | 1285.4 | 1184.1 | 1127.3 | 1301.6 |
| 65° | 1129.5 | 1159.2 | 1202.9 | 1168.4 | 1138.2 | 1185.0 | 1202.4 | 1244.8 | 1214.7 | 1209.9 | 1338.3 |
| 67.5° | 1067.5 | 1099.8 | 1126.9 | 1201.6 | 1101.1 | 1132.1 | 1116.8 | 1130.4 | 1181.5 | 1300.3 | 1359.2 |
| 70° | 932.1 | 963.1 | 1005.9 | 1127.7 | 1002.8 | 974.9 | 970.9 | 964.4 | 1043.9 | 1267.9 | 1264.0 |
| 72.5° | 766.5 | 780.9 | 851.7 | 916.8 | 742.1 | 736.8 | 742.9 | 735.5 | 827.7 | 1147.8 | 1082.8 |
| 75° | 573.9 | 588.3 | 628.5 | 704.1 | 505.3 | 475.2 | 510.1 | 544.7 | 632.0 | 891.0 | 777.9 |
| 77.5° | 431.5 | 449.9 | 475.2 | 526.7 | 370.8 | 323.6 | 328.5 | 361.2 | 456.9 | 713.7 | 435.9 |
| 80° | 280.0 | 277.8 | 326.7 | 362.5 | 279.1 | 287.8 | 275.6 | 299.6 | 331.1 | 381.7 | 222.8 |
| 82.5° | 161.6 | 163.8 | 184.3 | 207.9 | 194.4 | 222.3 | 160.3 | 267.7 | 236.3 | 155.5 | 83.0 |
| 85° | 90.8 | 94.8 | 113.6 | 144.1 | 121.9 | 81.7 | 66.8 | 132.8 | 148.5 | 63.8 | 40.2 |
| 87.5° | 9.2 | 7.9 | 15.3 | 54.6 | 33.2 | 13.5 | 20.1 | 31.9 | 35.8 | 24.0 | 11.8 |
| 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° | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 |
| 2.5° | 639.0 | 639.0 | 628.1 | 609.7 | 602.3 | 589.2 | 571.3 | 577.0 | 570.9 | 548.6 | 542.9 |
| 5° | 612.8 | 591.8 | 569.1 | 541.2 | 525.0 | 491.8 | 481.3 | 462.5 | 465.6 | 446.8 | 447.7 |
| 7.5° | 558.2 | 541.6 | 503.2 | 466.5 | 434.6 | 405.8 | 365.1 | 349.9 | 335.0 | 327.6 | 336.3 |
| 10° | 526.3 | 495.3 | 442.9 | 394.8 | 352.5 | 326.7 | 299.6 | 278.7 | 259.4 | 245.0 | 242.0 |
| 12.5° | 503.2 | 475.6 | 412.3 | 353.8 | 320.6 | 299.6 | 274.7 | 245.9 | 227.1 | 202.2 | 194.8 |
| 15° | 496.2 | 462.5 | 395.7 | 337.6 | 305.3 | 270.8 | 242.4 | 214.0 | 189.6 | 163.4 | 154.2 |
| 17.5° | 520.2 | 481.3 | 395.3 | 324.5 | 279.1 | 242.0 | 202.7 | 170.8 | 145.9 | 121.9 | 116.2 |
| 20° | 560.8 | 501.4 | 407.9 | 316.7 | 254.2 | 204.4 | 159.9 | 128.0 | 100.0 | 84.3 | 80.4 |
| 22.5° | 607.1 | 535.5 | 409.3 | 295.7 | 229.3 | 166.8 | 116.6 | 84.3 | 68.6 | 61.1 | 59.0 |
| 25° | 663.9 | 590.1 | 425.0 | 278.7 | 200.0 | 126.7 | 83.0 | 64.6 | 55.5 | 51.1 | 50.2 |
| 27.5° | 710.6 | 628.1 | 442.0 | 260.8 | 171.2 | 93.9 | 65.1 | 52.8 | 48.0 | 43.7 | 43.2 |
| 30° | 759.1 | 671.8 | 446.8 | 249.8 | 146.3 | 77.3 | 55.9 | 46.7 | 41.5 | 39.3 | 38.9 |
| 32.5° | 801.5 | 719.4 | 462.1 | 231.9 | 122.7 | 68.1 | 50.7 | 41.9 | 38.4 | 34.9 | 34.5 |
| 35° | 856.1 | 746.9 | 469.5 | 222.3 | 114.0 | 61.6 | 46.3 | 38.4 | 33.2 | 31.0 | 30.1 |
| 37.5° | 914.6 | 773.5 | 474.3 | 214.9 | 106.6 | 57.7 | 43.7 | 36.3 | 31.4 | 28.4 | 27.5 |
| 40° | 969.2 | 811.1 | 467.3 | 205.7 | 100.9 | 52.8 | 41.9 | 33.6 | 29.3 | 26.2 | 24.9 |
| 42.5° | 1011.1 | 847.8 | 465.2 | 197.0 | 94.8 | 51.1 | 39.7 | 32.3 | 27.5 | 24.0 | 23.6 |
| 45° | 1034.7 | 872.7 | 449.9 | 190.0 | 90.0 | 52.0 | 38.9 | 30.6 | 26.2 | 23.1 | 21.4 |
| 47.5° | 1029.0 | 891.9 | 453.8 | 187.8 | 83.4 | 48.5 | 38.4 | 29.3 | 24.0 | 21.4 | 20.1 |
| 50° | 1060.5 | 930.8 | 447.3 | 180.8 | 78.6 | 43.7 | 41.9 | 29.3 | 23.6 | 20.5 | 19.2 |
| 52.5° | 1065.7 | 966.1 | 461.2 | 168.2 | 71.2 | 40.2 | 41.5 | 28.8 | 22.7 | 19.7 | 17.9 |
| 55° | 1109.4 | 1007.2 | 488.3 | 161.2 | 65.1 | 34.9 | 38.0 | 28.0 | 20.5 | 17.9 | 17.0 |
| 57.5° | 1168.8 | 1092.4 | 505.8 | 154.6 | 56.8 | 30.6 | 31.9 | 27.5 | 18.8 | 16.6 | 15.3 |
| 60° | 1226.0 | 1126.4 | 507.1 | 142.8 | 48.9 | 27.5 | 24.9 | 27.5 | 17.5 | 14.9 | 13.5 |
| 62.5° | 1268.8 | 1126.4 | 498.4 | 132.8 | 42.8 | 24.5 | 21.8 | 26.2 | 15.7 | 13.1 | 12.2 |
| 65° | 1245.7 | 1096.3 | 475.6 | 124.5 | 38.9 | 21.4 | 18.8 | 20.1 | 14.0 | 11.4 | 10.5 |
| 67.5° | 1204.2 | 1002.4 | 425.4 | 114.4 | 38.4 | 18.8 | 16.2 | 14.9 | 12.2 | 10.0 | 9.2 |
| 70° | 1137.8 | 875.7 | 354.2 | 103.1 | 37.6 | 17.0 | 14.4 | 12.7 | 10.9 | 8.7 | 7.9 |
| 72.5° | 916.8 | 723.3 | 290.9 | 96.5 | 36.7 | 14.9 | 12.2 | 10.9 | 9.2 | 7.4 | 6.6 |
| 75° | 635.1 | 462.1 | 224.1 | 82.5 | 35.8 | 13.5 | 11.4 | 9.6 | 7.9 | 6.1 | 5.7 |
| 77.5° | 380.9 | 308.8 | 144.6 | 62.0 | 23.6 | 10.9 | 9.6 | 7.4 | 6.6 | 5.2 | 4.8 |
| 80° | 178.2 | 145.9 | 58.5 | 24.0 | 11.4 | 7.9 | 6.6 | 5.7 | 5.2 | 4.4 | 3.9 |
| 82.5° | 69.9 | 61.6 | 28.4 | 14.0 | 9.2 | 6.1 | 5.2 | 4.8 | 4.4 | 3.5 | 3.1 |
| 85° | 37.6 | 33.2 | 13.5 | 9.6 | 6.6 | 4.4 | 4.4 | 3.9 | 3.5 | 3.1 | 2.6 |
| 87.5° | 8.3 | 6.1 | 5.7 | 5.7 | 4.8 | 3.5 | 3.5 | 3.1 | 2.6 | 2.2 | 1.7 |
| 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):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 |
| 2.5° | 539.8 | 546.4 | 535.9 | 542.5 | 533.3 | 540.3 | 541.2 | 534.6 | 536.4 | 545.1 | 549.0 |
| 5° | 459.9 | 455.6 | 445.9 | 442.9 | 443.3 | 437.6 | 439.8 | 442.9 | 447.7 | 450.3 | 458.2 |
| 7.5° | 331.5 | 341.6 | 341.1 | 348.5 | 349.0 | 348.1 | 342.0 | 328.9 | 333.3 | 329.8 | 334.1 |
| 10° | 237.2 | 241.5 | 249.8 | 254.6 | 263.4 | 258.6 | 244.6 | 239.3 | 236.7 | 236.3 | 240.7 |
| 12.5° | 189.6 | 179.1 | 178.2 | 179.9 | 184.3 | 178.6 | 171.7 | 165.5 | 168.6 | 174.7 | 179.5 |
| 15° | 146.8 | 138.0 | 126.7 | 124.9 | 125.8 | 123.2 | 115.7 | 107.9 | 110.1 | 116.2 | 119.7 |
| 17.5° | 112.7 | 102.6 | 94.8 | 89.5 | 87.8 | 78.6 | 67.7 | 61.1 | 59.4 | 59.0 | 62.0 |
| 20° | 76.0 | 74.3 | 72.9 | 66.4 | 66.4 | 53.3 | 44.1 | 39.3 | 39.3 | 40.2 | 40.6 |
| 22.5° | 56.8 | 54.6 | 55.0 | 53.7 | 50.2 | 39.7 | 34.9 | 33.6 | 33.6 | 34.5 | 34.5 |
| 25° | 49.4 | 46.3 | 45.4 | 45.0 | 41.5 | 34.1 | 30.6 | 29.3 | 29.3 | 30.1 | 30.1 |
| 27.5° | 41.9 | 41.1 | 39.7 | 38.0 | 34.9 | 29.3 | 27.1 | 25.8 | 26.2 | 26.6 | 26.2 |
| 30° | 38.4 | 36.3 | 34.5 | 34.5 | 31.0 | 26.2 | 24.5 | 23.6 | 22.7 | 23.6 | 24.0 |
| 32.5° | 34.1 | 32.8 | 31.9 | 30.6 | 26.6 | 23.1 | 21.4 | 20.5 | 20.1 | 20.1 | 20.5 |
| 35° | 29.3 | 29.3 | 28.4 | 26.6 | 23.1 | 21.0 | 18.8 | 17.9 | 17.5 | 17.9 | 17.9 |
| 37.5° | 26.2 | 24.9 | 25.3 | 23.6 | 20.5 | 18.3 | 16.2 | 15.3 | 15.3 | 14.9 | 15.3 |
| 40° | 24.5 | 22.3 | 21.0 | 20.1 | 18.3 | 15.7 | 14.0 | 13.1 | 12.7 | 12.7 | 12.7 |
| 42.5° | 21.8 | 20.1 | 17.5 | 17.0 | 16.6 | 13.5 | 11.4 | 10.9 | 10.5 | 10.0 | 10.0 |
| 45° | 20.5 | 17.9 | 15.7 | 13.5 | 13.5 | 11.4 | 9.6 | 8.7 | 8.3 | 7.9 | 8.3 |
| 47.5° | 18.8 | 16.2 | 13.5 | 11.4 | 10.9 | 9.2 | 7.4 | 6.6 | 6.1 | 6.1 | 6.1 |
| 50° | 17.9 | 14.4 | 11.8 | 9.6 | 8.3 | 7.4 | 5.7 | 4.8 | 4.4 | 4.4 | 4.4 |
| 52.5° | 16.6 | 13.5 | 10.5 | 8.3 | 6.6 | 5.7 | 4.4 | 3.5 | 3.1 | 3.1 | 3.1 |
| 55° | 14.9 | 12.2 | 9.2 | 7.0 | 5.7 | 4.4 | 3.1 | 2.2 | 1.7 | 1.7 | 1.7 |
| 57.5° | 14.0 | 10.9 | 7.9 | 6.1 | 4.4 | 3.1 | 1.7 | 1.3 | 1.3 | 0.9 | 1.3 |
| 60° | 12.7 | 9.6 | 6.6 | 4.8 | 3.5 | 2.2 | 1.3 | 0.4 | 0.4 | 0.4 | 0.4 |
| 62.5° | 10.9 | 8.3 | 5.7 | 3.9 | 2.6 | 1.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 9.2 | 6.6 | 4.4 | 3.1 | 1.7 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 7.9 | 5.7 | 3.5 | 2.2 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 7.0 | 4.8 | 2.6 | 1.7 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 5.7 | 3.9 | 2.2 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 4.8 | 3.1 | 1.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 3.9 | 2.2 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 3.1 | 1.7 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 2.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 1.7 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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| 0° | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 |
| 2.5° | 554.7 | 552.1 | 565.2 | 586.6 | 597.5 | 618.9 | 624.1 | 637.7 | 634.2 | 639.0 |
| 5° | 459.0 | 464.3 | 483.5 | 515.0 | 526.3 | 557.3 | 586.6 | 615.8 | 634.6 | 643.8 |
| 7.5° | 340.7 | 358.2 | 381.7 | 410.6 | 439.8 | 480.4 | 530.2 | 564.3 | 582.7 | 602.3 |
| 10° | 253.8 | 272.5 | 299.6 | 328.0 | 375.6 | 421.0 | 470.8 | 513.2 | 528.9 | 547.3 |
| 12.5° | 199.6 | 228.9 | 260.3 | 290.9 | 319.3 | 362.5 | 424.1 | 485.7 | 502.7 | 516.7 |
| 15° | 138.9 | 174.7 | 219.7 | 259.4 | 299.2 | 336.7 | 400.5 | 475.2 | 498.4 | 521.9 |
| 17.5° | 76.9 | 105.3 | 156.8 | 212.7 | 271.2 | 328.9 | 408.4 | 494.4 | 529.4 | 546.0 |
| 20° | 44.6 | 55.9 | 92.6 | 159.0 | 236.3 | 311.9 | 412.3 | 530.7 | 577.0 | 585.3 |
| 22.5° | 36.7 | 40.6 | 52.4 | 99.6 | 193.5 | 300.9 | 432.4 | 581.3 | 628.5 | 648.2 |
| 25° | 31.4 | 34.5 | 40.6 | 59.8 | 146.3 | 277.8 | 445.1 | 644.7 | 688.3 | 709.8 |
| 27.5° | 28.0 | 31.0 | 35.8 | 44.1 | 99.6 | 245.9 | 466.0 | 701.9 | 745.6 | 774.8 |
| 30° | 24.5 | 27.1 | 31.9 | 37.6 | 69.0 | 210.1 | 483.9 | 743.8 | 805.4 | 814.6 |
| 32.5° | 21.8 | 24.0 | 27.5 | 32.3 | 51.1 | 159.4 | 498.4 | 787.1 | 839.0 | 859.1 |
| 35° | 18.8 | 21.4 | 23.6 | 27.5 | 38.9 | 120.1 | 489.6 | 820.7 | 888.4 | 912.4 |
| 37.5° | 16.6 | 18.3 | 20.5 | 23.1 | 32.8 | 93.9 | 471.7 | 860.9 | 930.8 | 953.0 |
| 40° | 14.0 | 15.3 | 17.9 | 20.5 | 29.7 | 72.5 | 451.2 | 909.4 | 990.2 | 1029.5 |
| 42.5° | 11.8 | 13.1 | 14.9 | 19.2 | 24.5 | 53.7 | 409.7 | 946.9 | 1038.2 | 1071.4 |
| 45° | 9.2 | 10.9 | 13.5 | 19.2 | 19.7 | 39.7 | 366.9 | 974.9 | 1065.3 | 1081.9 |
| 47.5° | 7.0 | 8.7 | 13.1 | 16.6 | 15.7 | 27.5 | 316.2 | 1006.8 | 1093.2 | 1108.5 |
| 50° | 5.2 | 7.0 | 14.9 | 14.4 | 13.1 | 21.0 | 284.3 | 1029.0 | 1095.0 | 1103.3 |
| 52.5° | 3.5 | 5.2 | 12.2 | 10.9 | 10.9 | 18.3 | 275.6 | 1028.2 | 1099.3 | 1081.4 |
| 55° | 2.6 | 3.9 | 7.0 | 7.9 | 9.6 | 16.2 | 267.7 | 1060.9 | 1100.7 | 1113.3 |
| 57.5° | 1.7 | 3.1 | 4.8 | 6.1 | 8.3 | 14.0 | 251.6 | 1100.2 | 1141.3 | 1147.8 |
| 60° | 0.9 | 2.2 | 3.5 | 4.8 | 7.0 | 12.2 | 228.9 | 1129.0 | 1190.6 | 1197.6 |
| 62.5° | 0.4 | 1.3 | 2.6 | 3.9 | 5.7 | 9.6 | 205.3 | 1083.2 | 1169.2 | 1181.5 |
| 65° | 0.0 | 0.9 | 1.7 | 2.6 | 3.5 | 7.0 | 166.8 | 977.9 | 1084.5 | 1129.5 |
| 67.5° | 0.0 | 0.0 | 0.9 | 1.7 | 2.2 | 5.2 | 125.8 | 889.7 | 1006.3 | 1067.5 |
| 70° | 0.0 | 0.0 | 0.4 | 0.4 | 1.3 | 3.9 | 80.4 | 736.8 | 898.4 | 932.1 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 2.6 | 46.7 | 547.3 | 704.1 | 766.5 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 23.6 | 352.0 | 490.1 | 573.9 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 12.7 | 227.1 | 361.2 | 431.5 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 7.4 | 131.9 | 231.1 | 280.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 64.6 | 138.0 | 161.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 34.5 | 69.0 | 90.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 4.8 | 9.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)