

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: P148778

Luminaire Tested: **VWM-E01-LED-E1-RW-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148778
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-E01-LED-E1-RW-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2636.6 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 24.7
Input Voltage (V): NR
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

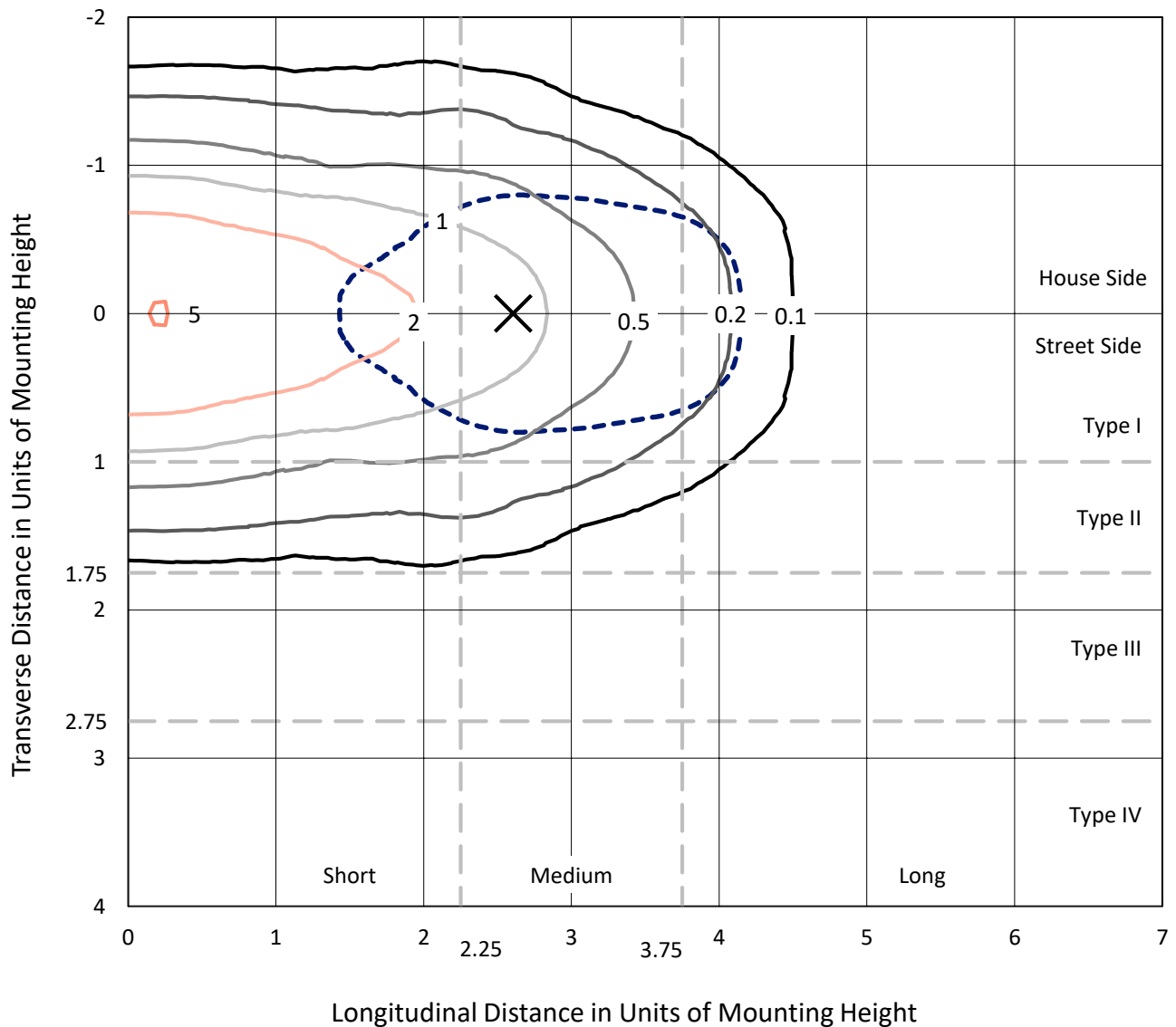


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Iso-Footcandle Lines of Horizontal Illumination

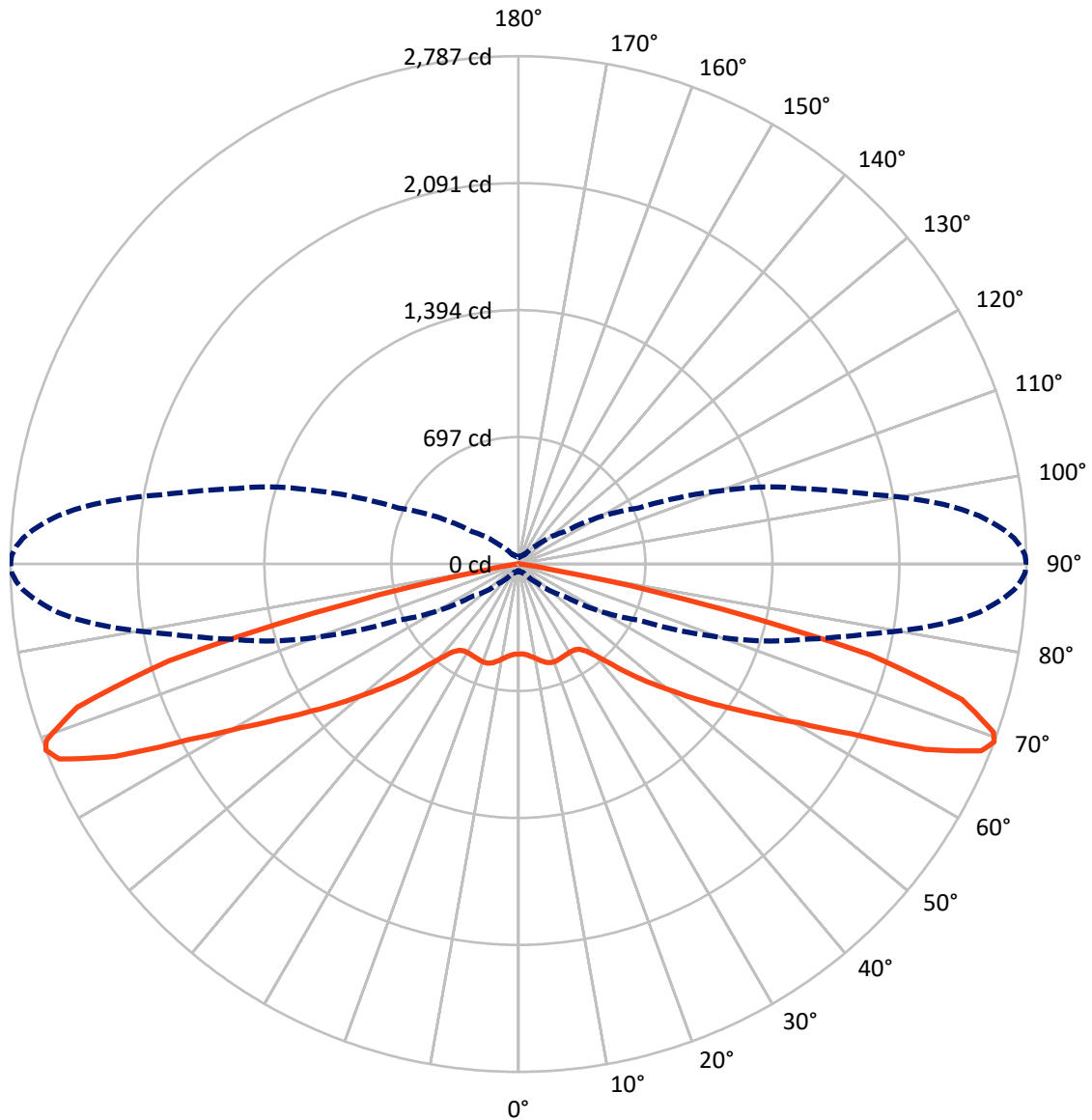
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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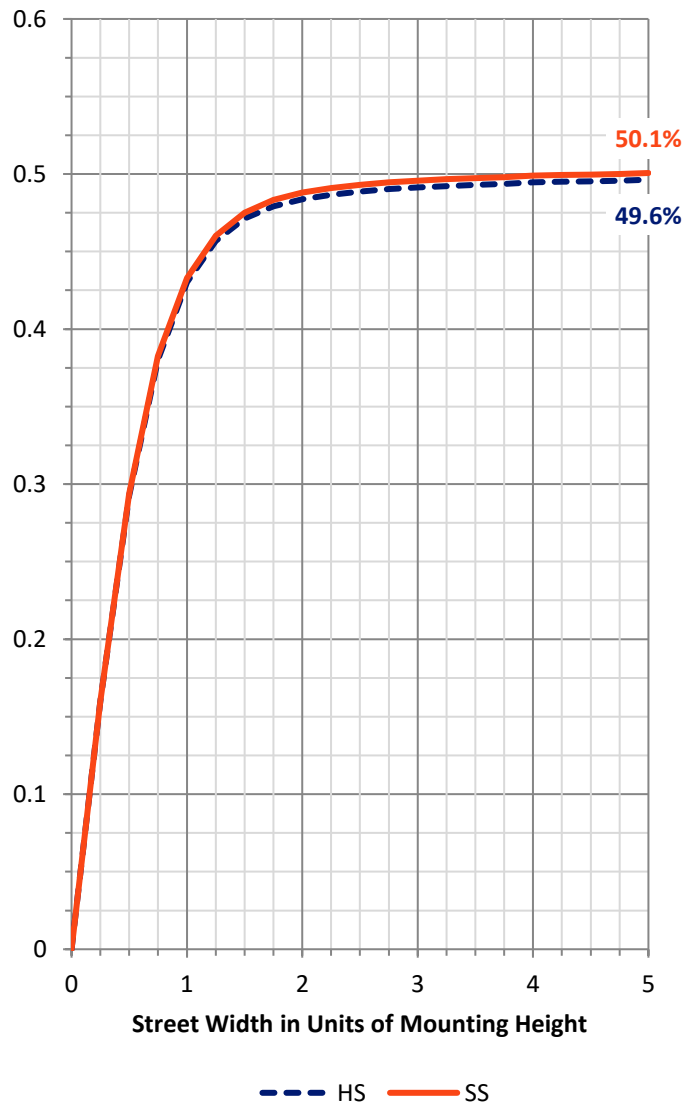
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1318.3 | 0.0 | 1318.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1318.3 | 0.0 | 1318.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 2636.6 | 0.0 | 2636.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.5 | 1.8 |
| 10°-20° | 152.9 | 5.8 |
| 20°-30° | 247.7 | 9.4 |
| 30°-40° | 308.6 | 11.7 |
| 40°-50° | 385.7 | 14.6 |
| 50°-60° | 476.2 | 18.1 |
| 60°-70° | 591.7 | 22.4 |
| 70°-80° | 392.8 | 14.9 |
| 80°-90° | 32.4 | 1.2 |
| 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° | 2636.6 | 100.0 |
| 0°-180° | 2636.6 | 100.0 |



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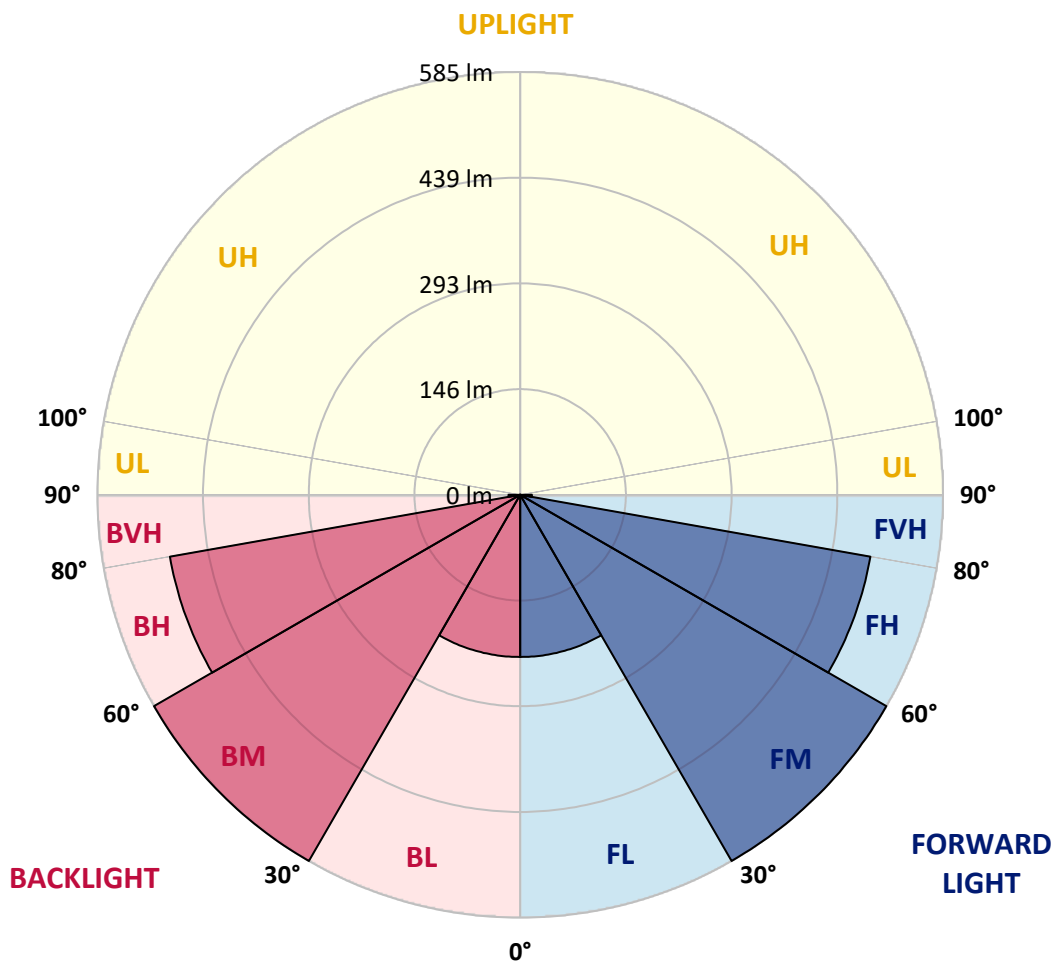
CATALOG NUMBER: VWM-E01-LED-E1-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 224.5 | 8.5 | | | |
| FM | (30°-60°) | 585.3 | 22.2 | | | |
| FH | (60°-80°) | 492.3 | 18.7 | | | G0/660 |
| FVH | (80°-90°) | 16.2 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 224.5 | 8.5 | B1/500 | | |
| BM | (30°-60°) | 585.3 | 22.2 | B1/1000 | | |
| BH | (60°-80°) | 492.3 | 18.7 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 16.2 | 0.6 | | | 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 I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0° | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 |
| 2.5° | 496.3 | 496.7 | 496.4 | 497.0 | 496.8 | 496.8 | 496.6 | 496.0 | 495.9 | 495.8 | 495.8 |
| 5° | 501.0 | 500.5 | 501.4 | 502.2 | 501.9 | 502.0 | 501.9 | 501.9 | 501.8 | 501.8 | 501.7 |
| 7.5° | 506.2 | 506.0 | 506.5 | 508.8 | 509.1 | 510.0 | 510.9 | 511.6 | 511.6 | 511.6 | 511.7 |
| 10° | 510.4 | 510.6 | 512.0 | 515.2 | 517.0 | 519.6 | 522.3 | 524.4 | 524.6 | 524.7 | 524.9 |
| 12.5° | 514.0 | 514.2 | 516.2 | 521.3 | 525.4 | 530.4 | 536.2 | 539.4 | 539.7 | 540.0 | 540.3 |
| 15° | 514.2 | 514.7 | 518.4 | 526.7 | 534.8 | 543.1 | 550.0 | 554.3 | 554.6 | 554.8 | 555.0 |
| 17.5° | 510.6 | 510.9 | 517.0 | 529.3 | 543.0 | 555.9 | 563.1 | 565.0 | 565.1 | 565.2 | 565.3 |
| 20° | 501.0 | 501.8 | 510.5 | 528.6 | 549.4 | 566.3 | 573.8 | 571.1 | 570.8 | 570.6 | 570.3 |
| 22.5° | 485.6 | 485.4 | 496.8 | 521.3 | 550.7 | 574.4 | 581.1 | 574.0 | 573.2 | 572.4 | 571.6 |
| 25° | 460.6 | 462.2 | 475.6 | 504.8 | 543.6 | 576.3 | 586.3 | 575.6 | 574.4 | 573.2 | 572.0 |
| 27.5° | 433.4 | 434.4 | 448.6 | 480.0 | 526.8 | 570.0 | 588.8 | 578.7 | 577.4 | 576.0 | 574.7 |
| 30° | 401.8 | 403.0 | 418.2 | 451.0 | 499.9 | 553.7 | 588.1 | 585.8 | 584.2 | 582.6 | 581.1 |
| 32.5° | 370.8 | 372.2 | 385.8 | 421.7 | 471.6 | 531.3 | 583.9 | 595.7 | 594.1 | 592.5 | 590.9 |
| 35° | 338.7 | 340.8 | 357.5 | 393.7 | 444.4 | 506.4 | 577.4 | 608.5 | 607.6 | 606.7 | 605.9 |
| 37.5° | 312.1 | 312.5 | 328.6 | 366.7 | 419.0 | 482.6 | 568.8 | 624.7 | 625.3 | 626.0 | 626.6 |
| 40° | 282.4 | 285.2 | 301.2 | 341.4 | 396.2 | 462.5 | 560.7 | 646.6 | 650.0 | 653.4 | 656.7 |
| 42.5° | 255.8 | 256.2 | 272.5 | 314.0 | 371.2 | 446.3 | 556.2 | 673.0 | 680.2 | 687.4 | 694.6 |
| 45° | 227.8 | 229.0 | 243.8 | 283.8 | 342.6 | 427.2 | 556.0 | 703.6 | 715.1 | 726.6 | 738.0 |
| 47.5° | 201.4 | 201.8 | 217.4 | 254.8 | 309.6 | 400.4 | 555.0 | 736.4 | 752.0 | 767.6 | 783.3 |
| 50° | 176.1 | 175.7 | 191.0 | 226.9 | 277.2 | 365.4 | 546.4 | 773.5 | 793.2 | 813.0 | 832.7 |
| 52.5° | 147.2 | 149.1 | 165.0 | 199.3 | 247.6 | 329.8 | 521.4 | 814.2 | 837.8 | 861.4 | 885.0 |
| 55° | 118.7 | 119.6 | 136.6 | 168.6 | 217.6 | 296.7 | 477.8 | 851.6 | 879.4 | 907.2 | 935.1 |
| 57.5° | 87.5 | 90.1 | 105.0 | 136.6 | 187.2 | 268.7 | 422.4 | 871.0 | 904.9 | 938.7 | 972.6 |
| 60° | 61.8 | 63.7 | 76.9 | 103.5 | 153.9 | 239.3 | 374.8 | 860.2 | 904.2 | 948.2 | 992.2 |
| 62.5° | 48.1 | 49.6 | 60.2 | 77.5 | 120.0 | 209.8 | 340.5 | 825.1 | 885.0 | 944.8 | 1004.7 |
| 65° | 42.2 | 43.6 | 53.2 | 62.0 | 89.6 | 179.9 | 321.8 | 788.2 | 867.3 | 946.4 | 1025.6 |
| 67.5° | 38.2 | 39.8 | 48.1 | 54.3 | 73.0 | 157.0 | 317.0 | 764.8 | 854.4 | 944.1 | 1033.7 |
| 69° | 36.3 | 38.0 | 45.4 | 50.7 | 67.8 | 148.8 | 308.5 | 728.1 | 817.2 | 906.3 | 995.4 |
| 70° | 35.2 | 36.6 | 43.4 | 48.8 | 66.1 | 143.2 | 294.4 | 682.2 | 769.7 | 857.2 | 944.7 |
| 72.5° | 32.7 | 33.3 | 39.4 | 44.6 | 61.4 | 115.8 | 226.4 | 506.7 | 582.6 | 658.4 | 734.3 |
| 75° | 28.8 | 29.7 | 35.3 | 40.3 | 47.8 | 71.9 | 143.4 | 313.4 | 370.0 | 426.7 | 483.3 |
| 77.5° | 24.9 | 25.6 | 30.6 | 38.6 | 37.1 | 44.9 | 85.6 | 174.4 | 207.3 | 240.1 | 273.0 |
| 80° | 20.0 | 20.8 | 25.2 | 38.3 | 30.6 | 34.9 | 61.6 | 122.0 | 130.8 | 139.7 | 148.5 |
| 82.5° | 14.6 | 15.4 | 19.7 | 30.9 | 23.5 | 26.3 | 47.0 | 103.4 | 106.5 | 109.6 | 112.7 |
| 85° | 7.4 | 7.6 | 12.6 | 18.8 | 14.9 | 13.6 | 26.4 | 70.8 | 72.7 | 74.7 | 76.7 |
| 87.5° | 1.2 | 1.2 | 2.8 | 3.2 | 3.7 | 2.2 | 3.4 | 12.1 | 12.5 | 12.9 | 13.2 |
| 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):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 |
| 2.5° | 495.7 | 495.6 | 495.4 | 495.5 | 495.6 | 495.6 | 495.7 | 495.7 | 495.9 | 495.4 | 495.3 |
| 5° | 501.7 | 501.6 | 501.6 | 501.6 | 501.7 | 501.7 | 501.8 | 502.0 | 502.0 | 501.6 | 501.5 |
| 7.5° | 511.7 | 511.7 | 511.8 | 511.7 | 512.0 | 511.9 | 511.6 | 512.0 | 512.3 | 512.4 | 512.7 |
| 10° | 525.0 | 525.2 | 525.7 | 525.6 | 526.1 | 526.0 | 526.1 | 526.6 | 526.9 | 527.0 | 527.3 |
| 12.5° | 540.6 | 540.8 | 541.1 | 541.3 | 541.9 | 541.6 | 542.2 | 542.5 | 543.0 | 543.8 | 543.4 |
| 15° | 555.3 | 555.5 | 556.2 | 556.3 | 556.8 | 557.0 | 557.6 | 557.8 | 558.0 | 558.7 | 558.8 |
| 17.5° | 565.4 | 565.4 | 565.7 | 565.6 | 566.0 | 565.9 | 566.3 | 566.5 | 566.9 | 567.3 | 567.9 |
| 20° | 570.0 | 569.8 | 569.6 | 569.5 | 569.2 | 568.7 | 568.8 | 569.1 | 569.1 | 569.4 | 569.9 |
| 22.5° | 570.7 | 569.9 | 569.0 | 568.5 | 567.6 | 566.9 | 566.2 | 566.2 | 566.3 | 566.2 | 566.5 |
| 25° | 570.8 | 569.6 | 568.3 | 566.7 | 565.4 | 563.8 | 562.5 | 562.4 | 562.0 | 562.0 | 562.2 |
| 27.5° | 573.3 | 572.0 | 570.1 | 568.3 | 565.7 | 563.6 | 561.4 | 560.7 | 559.9 | 559.4 | 559.2 |
| 30° | 579.5 | 577.9 | 575.7 | 573.3 | 570.5 | 567.1 | 564.0 | 563.1 | 562.0 | 561.1 | 560.2 |
| 32.5° | 589.3 | 587.7 | 585.2 | 582.7 | 579.0 | 575.7 | 572.6 | 571.1 | 569.5 | 567.9 | 566.3 |
| 35° | 605.0 | 604.1 | 601.9 | 599.7 | 597.0 | 594.4 | 591.6 | 589.9 | 587.3 | 586.0 | 584.1 |
| 37.5° | 627.3 | 627.9 | 627.9 | 628.2 | 627.4 | 626.1 | 624.1 | 622.3 | 621.5 | 617.9 | 615.7 |
| 40° | 660.1 | 663.5 | 666.6 | 668.9 | 671.0 | 673.1 | 674.9 | 673.8 | 674.2 | 673.2 | 671.9 |
| 42.5° | 701.8 | 709.0 | 715.6 | 722.2 | 726.9 | 734.3 | 739.4 | 741.1 | 745.2 | 746.9 | 749.9 |
| 45° | 749.5 | 761.0 | 772.0 | 782.2 | 791.7 | 802.3 | 812.6 | 820.3 | 828.7 | 838.2 | 847.7 |
| 47.5° | 798.9 | 814.5 | 830.8 | 844.1 | 857.8 | 873.5 | 887.2 | 898.7 | 913.8 | 927.8 | 943.2 |
| 50° | 852.5 | 872.2 | 890.7 | 907.1 | 924.7 | 942.8 | 961.6 | 978.6 | 999.0 | 1021.3 | 1045.4 |
| 52.5° | 908.6 | 932.2 | 953.6 | 974.2 | 994.9 | 1015.6 | 1035.6 | 1059.6 | 1084.7 | 1114.2 | 1144.4 |
| 55° | 962.9 | 990.7 | 1015.0 | 1037.8 | 1061.6 | 1084.7 | 1105.4 | 1137.5 | 1168.3 | 1203.5 | 1242.9 |
| 57.5° | 1006.4 | 1040.3 | 1068.3 | 1095.4 | 1122.2 | 1146.8 | 1172.2 | 1208.4 | 1247.6 | 1288.8 | 1338.8 |
| 60° | 1036.2 | 1080.2 | 1115.9 | 1148.6 | 1181.4 | 1212.3 | 1241.5 | 1288.8 | 1335.6 | 1386.7 | 1448.9 |
| 62.5° | 1064.6 | 1124.4 | 1171.1 | 1215.6 | 1259.9 | 1299.6 | 1335.9 | 1395.4 | 1456.5 | 1519.7 | 1593.7 |
| 65° | 1104.7 | 1183.8 | 1252.5 | 1314.6 | 1375.8 | 1434.3 | 1488.5 | 1563.9 | 1641.1 | 1724.2 | 1812.6 |
| 67.5° | 1123.3 | 1213.0 | 1302.4 | 1386.1 | 1463.9 | 1537.9 | 1607.5 | 1698.7 | 1789.4 | 1885.9 | 1992.6 |
| 69° | 1084.5 | 1173.6 | 1269.3 | 1360.7 | 1446.6 | 1525.1 | 1600.5 | 1693.6 | 1787.9 | 1886.4 | 1994.1 |
| 70° | 1032.2 | 1119.8 | 1216.3 | 1311.9 | 1394.1 | 1475.8 | 1553.9 | 1646.3 | 1741.9 | 1840.6 | 1953.4 |
| 72.5° | 810.1 | 886.0 | 980.1 | 1072.9 | 1155.3 | 1237.4 | 1313.2 | 1407.8 | 1504.0 | 1607.7 | 1714.4 |
| 75° | 539.9 | 596.6 | 666.7 | 752.8 | 828.3 | 900.9 | 974.4 | 1054.3 | 1148.2 | 1233.7 | 1331.4 |
| 77.5° | 305.8 | 338.6 | 379.4 | 435.3 | 489.6 | 533.0 | 585.4 | 623.0 | 677.6 | 724.6 | 774.3 |
| 80° | 157.4 | 166.2 | 178.4 | 191.8 | 199.5 | 198.3 | 206.1 | 198.4 | 200.1 | 193.8 | 187.1 |
| 82.5° | 115.7 | 118.8 | 124.3 | 127.0 | 126.7 | 117.9 | 108.4 | 95.4 | 83.9 | 71.8 | 60.7 |
| 85° | 78.6 | 80.6 | 82.0 | 84.1 | 83.4 | 79.6 | 71.2 | 59.8 | 48.8 | 39.1 | 31.3 |
| 87.5° | 13.6 | 14.0 | 13.9 | 15.0 | 15.1 | 14.0 | 11.5 | 9.9 | 8.3 | 6.2 | 4.3 |
| 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):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 | 494.0 |
| 2.5° | 495.2 | 495.1 | 495.4 | 495.2 | 495.2 | 495.2 | 495.0 | 495.2 | 495.1 | 494.8 | 494.3 |
| 5° | 501.6 | 501.2 | 501.0 | 501.4 | 501.6 | 501.0 | 501.5 | 501.9 | 501.2 | 501.3 | 501.0 |
| 7.5° | 512.4 | 512.3 | 512.2 | 512.4 | 512.4 | 512.3 | 512.4 | 512.0 | 511.8 | 512.2 | 512.6 |
| 10° | 527.0 | 526.8 | 527.0 | 527.1 | 527.6 | 527.3 | 527.2 | 527.6 | 527.4 | 527.1 | 527.2 |
| 12.5° | 544.0 | 543.5 | 544.2 | 544.2 | 544.7 | 544.7 | 544.6 | 544.6 | 544.6 | 544.0 | 543.8 |
| 15° | 559.2 | 558.6 | 558.7 | 559.8 | 559.7 | 560.0 | 560.0 | 559.7 | 559.6 | 559.4 | 559.6 |
| 17.5° | 568.3 | 568.0 | 568.0 | 568.6 | 569.0 | 568.8 | 568.8 | 568.8 | 568.7 | 568.8 | 569.1 |
| 20° | 570.0 | 570.0 | 570.1 | 570.6 | 571.4 | 571.0 | 571.0 | 571.2 | 571.0 | 571.2 | 571.4 |
| 22.5° | 566.7 | 567.0 | 567.3 | 568.0 | 568.2 | 568.2 | 568.2 | 568.3 | 568.6 | 568.6 | 568.8 |
| 25° | 562.2 | 562.5 | 563.0 | 563.5 | 564.0 | 564.1 | 564.0 | 564.4 | 564.3 | 564.5 | 564.6 |
| 27.5° | 558.8 | 559.2 | 559.6 | 560.2 | 560.8 | 560.8 | 560.8 | 561.1 | 561.1 | 561.2 | 561.5 |
| 30° | 559.3 | 558.8 | 559.2 | 559.4 | 559.8 | 559.8 | 559.7 | 559.8 | 560.0 | 560.0 | 560.1 |
| 32.5° | 565.3 | 564.0 | 563.6 | 563.5 | 563.6 | 563.2 | 563.1 | 562.8 | 562.6 | 562.5 | 562.4 |
| 35° | 581.3 | 579.4 | 579.3 | 578.1 | 577.0 | 575.9 | 576.0 | 575.2 | 575.4 | 574.8 | 574.2 |
| 37.5° | 614.3 | 612.0 | 613.4 | 611.0 | 609.5 | 608.4 | 607.2 | 605.4 | 604.4 | 605.7 | 605.7 |
| 40° | 673.2 | 671.7 | 671.2 | 671.6 | 670.3 | 671.0 | 667.9 | 667.0 | 665.2 | 666.4 | 668.2 |
| 42.5° | 754.6 | 753.7 | 759.0 | 760.0 | 760.6 | 761.4 | 762.0 | 757.3 | 757.2 | 756.2 | 753.4 |
| 45° | 855.2 | 861.2 | 860.9 | 867.4 | 867.6 | 865.6 | 866.5 | 864.4 | 863.6 | 860.4 | 864.2 |
| 47.5° | 958.6 | 969.9 | 974.1 | 975.6 | 980.9 | 982.2 | 977.0 | 975.4 | 978.4 | 973.2 | 974.0 |
| 50° | 1069.6 | 1081.8 | 1091.6 | 1098.2 | 1101.9 | 1102.2 | 1098.4 | 1097.6 | 1100.3 | 1090.7 | 1095.2 |
| 52.5° | 1178.8 | 1197.0 | 1215.6 | 1225.4 | 1232.5 | 1233.1 | 1236.0 | 1232.5 | 1233.9 | 1231.6 | 1236.2 |
| 55° | 1286.4 | 1318.0 | 1339.8 | 1359.2 | 1371.4 | 1381.9 | 1382.9 | 1386.7 | 1387.0 | 1391.6 | 1387.0 |
| 57.5° | 1391.6 | 1426.1 | 1464.1 | 1498.2 | 1517.2 | 1529.2 | 1540.4 | 1555.8 | 1559.2 | 1557.3 | 1560.3 |
| 60° | 1515.8 | 1569.2 | 1620.8 | 1660.2 | 1692.9 | 1724.2 | 1741.2 | 1765.2 | 1769.0 | 1779.4 | 1770.4 |
| 62.5° | 1672.8 | 1750.2 | 1820.2 | 1873.2 | 1923.0 | 1971.8 | 2008.7 | 2027.3 | 2038.5 | 2060.3 | 2053.1 |
| 65° | 1913.6 | 2006.4 | 2099.2 | 2175.1 | 2244.8 | 2303.0 | 2359.0 | 2385.7 | 2415.2 | 2446.2 | 2451.8 |
| 67.5° | 2112.0 | 2226.9 | 2331.4 | 2424.0 | 2508.4 | 2573.0 | 2631.3 | 2677.6 | 2713.6 | 2736.4 | 2738.2 |
| 69° | 2121.0 | 2240.4 | 2353.9 | 2453.2 | 2541.4 | 2610.0 | 2671.4 | 2722.8 | 2757.9 | 2781.2 | 2787.4 |
| 70° | 2077.9 | 2200.1 | 2321.1 | 2421.4 | 2511.7 | 2581.9 | 2646.9 | 2696.0 | 2735.1 | 2758.8 | 2767.2 |
| 72.5° | 1835.8 | 1966.4 | 2095.6 | 2183.5 | 2275.8 | 2359.4 | 2411.4 | 2461.5 | 2516.6 | 2523.8 | 2546.6 |
| 75° | 1447.2 | 1556.9 | 1657.2 | 1724.4 | 1801.5 | 1876.4 | 1927.5 | 1940.8 | 1969.6 | 2005.8 | 1992.9 |
| 77.5° | 838.6 | 872.4 | 937.1 | 953.8 | 939.6 | 972.2 | 983.2 | 960.0 | 958.9 | 980.2 | 938.0 |
| 80° | 185.8 | 175.2 | 188.5 | 178.6 | 178.9 | 179.2 | 176.3 | 175.1 | 177.2 | 175.1 | 172.2 |
| 82.5° | 51.4 | 49.8 | 50.0 | 49.6 | 50.5 | 49.8 | 49.3 | 50.5 | 50.4 | 50.2 | 51.2 |
| 85° | 24.8 | 24.5 | 24.0 | 23.9 | 23.4 | 22.6 | 21.5 | 21.5 | 22.1 | 21.2 | 21.7 |
| 87.5° | 3.2 | 3.1 | 3.1 | 3.7 | 3.2 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.5 |
| 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)