

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: P147177

Luminaire Tested: **VXS-F02-LED-E1-5MQ-7060**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P147177
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-F02-LED-E1-5MQ-7060
Description: VISION SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (14) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5461.5 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

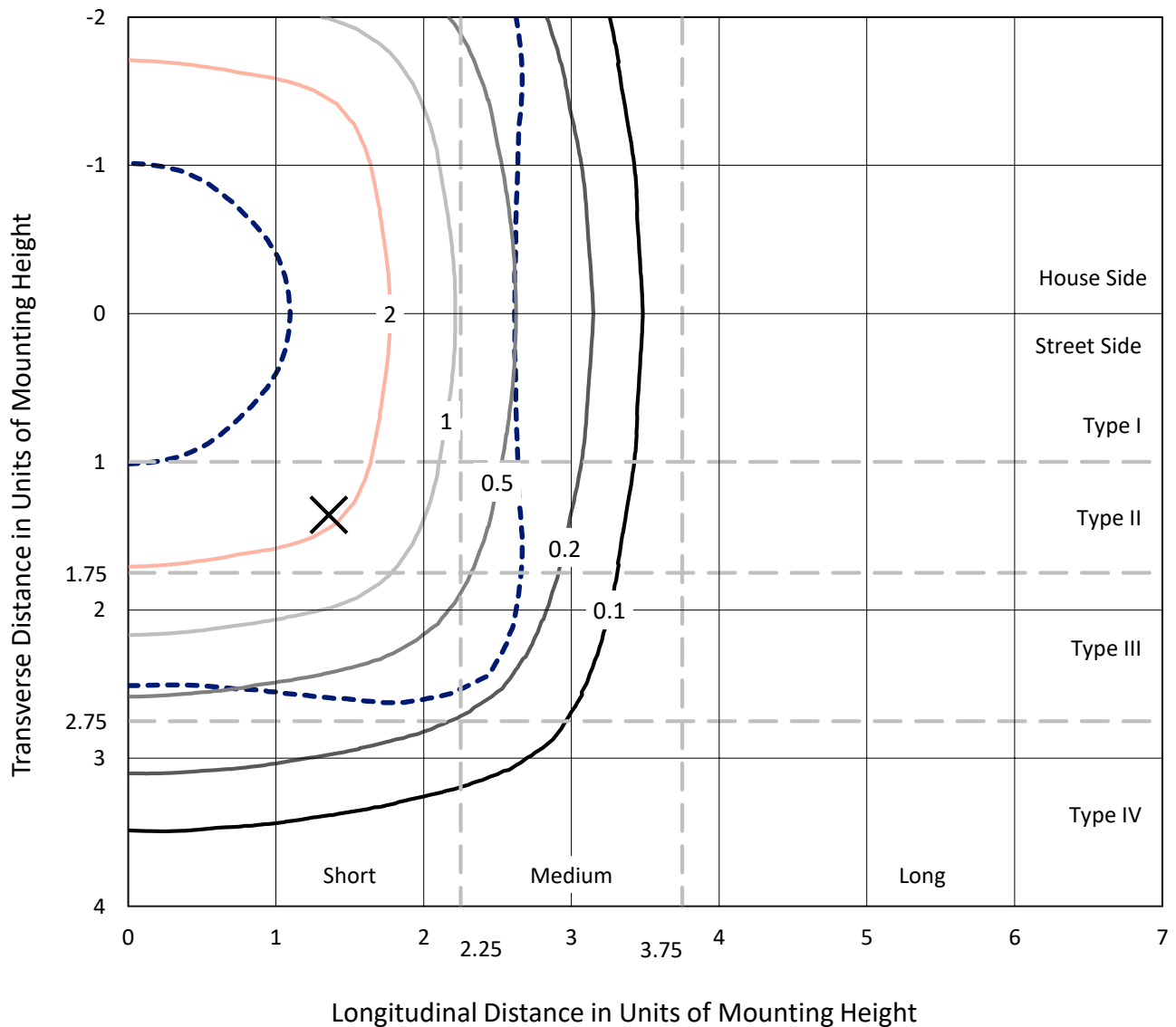
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

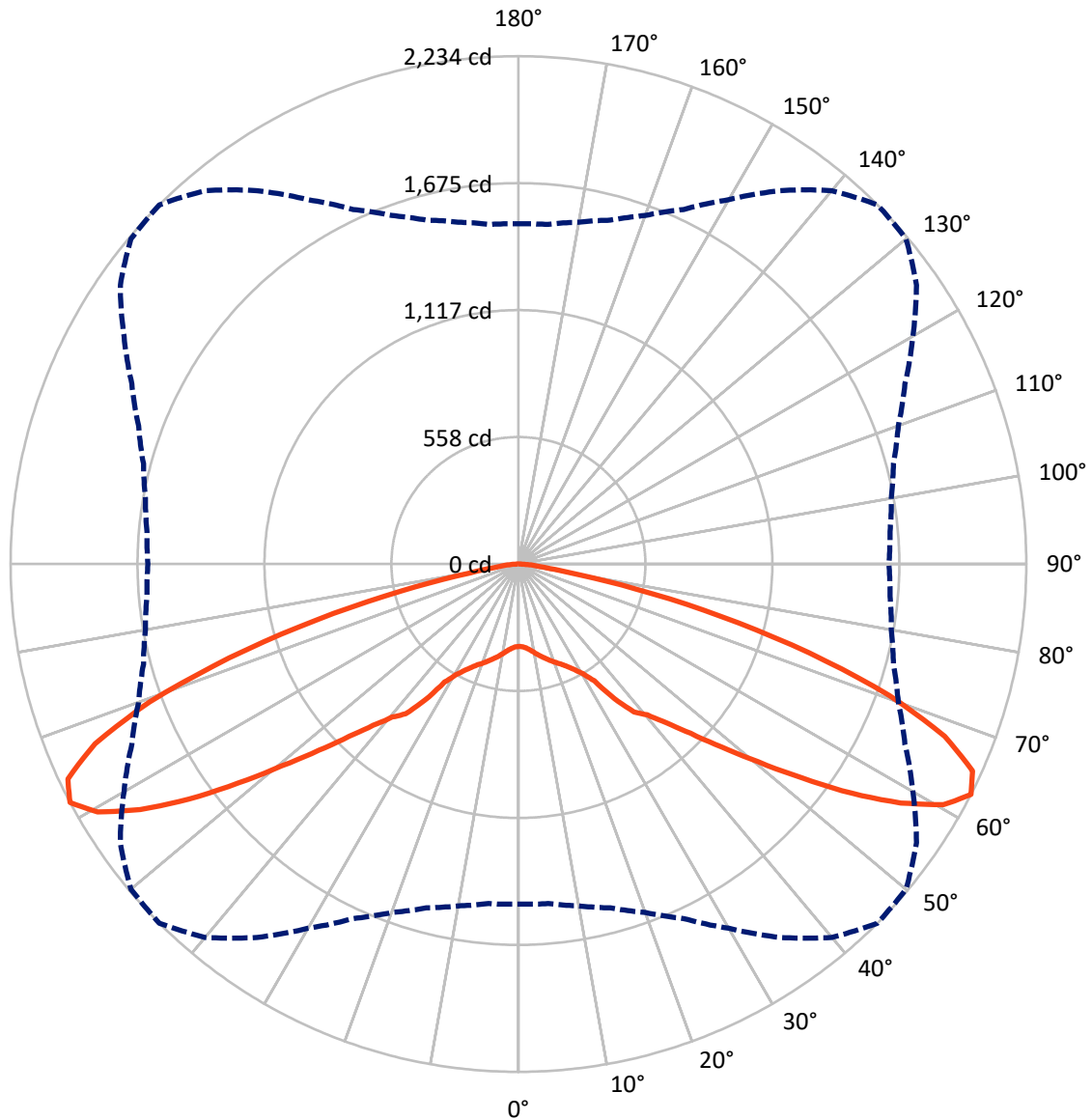
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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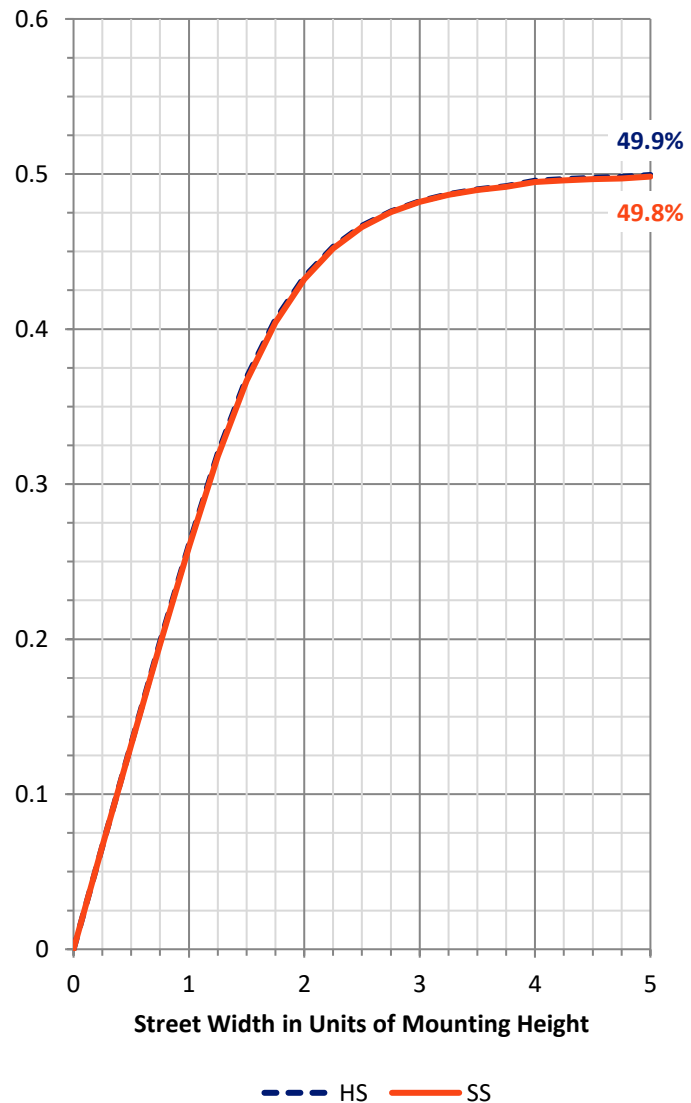
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2730.8 | 0.0 | 2730.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2730.8 | 0.0 | 2730.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5461.5 | 0.0 | 5461.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 36.3 | 0.7 |
| 10°-20° | 122.8 | 2.2 |
| 20°-30° | 237.5 | 4.3 |
| 30°-40° | 459.8 | 8.4 |
| 40°-50° | 830.2 | 15.2 |
| 50°-60° | 1443.5 | 26.4 |
| 60°-70° | 1638.8 | 30.0 |
| 70°-80° | 635.4 | 11.6 |
| 80°-90° | 57.3 | 1.0 |
| 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° | 5461.5 | 100.0 |
| 0°-180° | 5461.5 | 100.0 |



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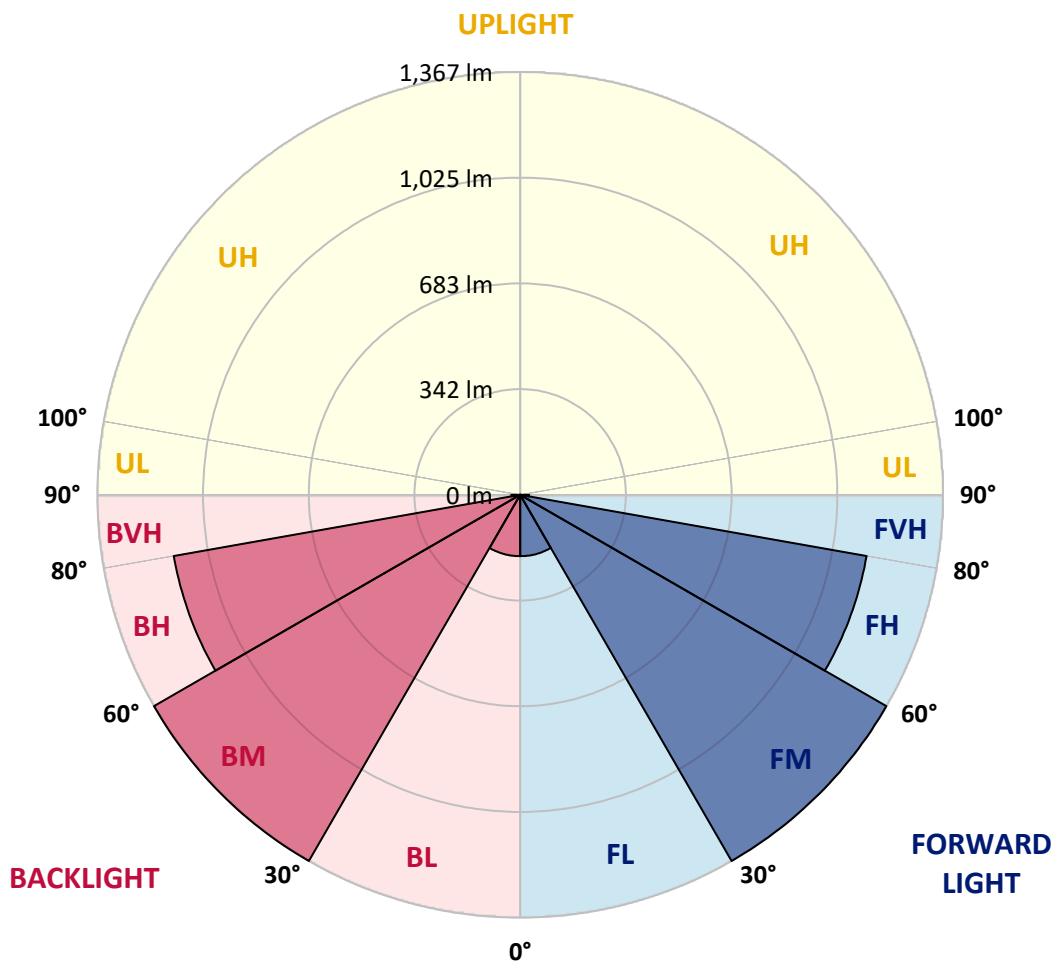
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 198.3 | 3.6 | | | |
| FM | (30°-60°) | 1366.7 | 25.0 | | | |
| FH | (60°-80°) | 1137.1 | 20.8 | | | G1/1800 |
| FVH | (80°-90°) | 28.7 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 198.3 | 3.6 | B1/500 | | |
| BM | (30°-60°) | 1366.7 | 25.0 | B2/2500 | | |
| BH | (60°-80°) | 1137.1 | 20.8 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 28.7 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 362.6 | 362.6 | 362.6 | 362.6 | 362.6 | 362.6 | 362.6 | 362.6 | 362.6 | 362.6 | 362.6 |
| 2.5° | 364.8 | 366.0 | 365.6 | 365.1 | 365.1 | 365.1 | 364.8 | 363.9 | 363.7 | 364.2 | 364.8 |
| 5° | 373.3 | 373.3 | 373.3 | 373.3 | 372.7 | 372.7 | 372.2 | 371.6 | 371.8 | 371.3 | 371.0 |
| 7.5° | 386.2 | 385.4 | 385.5 | 385.1 | 385.1 | 384.6 | 383.7 | 382.6 | 382.9 | 382.6 | 382.4 |
| 10° | 401.5 | 401.9 | 400.9 | 401.8 | 400.4 | 400.1 | 399.0 | 398.3 | 398.1 | 397.3 | 397.3 |
| 12.5° | 419.9 | 419.1 | 419.1 | 418.4 | 417.8 | 417.3 | 415.6 | 415.3 | 414.3 | 413.7 | 412.8 |
| 15° | 437.1 | 436.9 | 435.6 | 434.6 | 434.2 | 433.8 | 431.7 | 430.6 | 430.3 | 428.8 | 427.8 |
| 17.5° | 454.3 | 453.7 | 452.3 | 451.8 | 450.6 | 449.7 | 448.1 | 446.4 | 445.6 | 445.0 | 443.5 |
| 20° | 472.7 | 472.1 | 470.7 | 469.6 | 468.2 | 466.9 | 464.5 | 463.0 | 462.2 | 461.3 | 460.2 |
| 22.5° | 495.5 | 494.5 | 492.2 | 490.2 | 487.0 | 486.0 | 482.5 | 480.6 | 479.2 | 478.0 | 477.5 |
| 25° | 520.4 | 520.6 | 517.5 | 515.0 | 511.3 | 508.3 | 504.0 | 501.8 | 500.3 | 499.3 | 498.9 |
| 27.5° | 551.5 | 551.7 | 548.9 | 545.3 | 539.6 | 536.2 | 530.6 | 527.8 | 526.8 | 525.8 | 525.5 |
| 30° | 600.6 | 598.0 | 593.2 | 587.4 | 582.2 | 574.9 | 566.6 | 563.9 | 561.0 | 560.2 | 560.2 |
| 32.5° | 691.0 | 689.5 | 685.6 | 670.9 | 664.0 | 648.9 | 634.4 | 626.3 | 616.9 | 612.4 | 609.5 |
| 35° | 754.2 | 753.6 | 750.5 | 745.4 | 741.1 | 738.0 | 729.6 | 728.2 | 726.4 | 726.5 | 728.7 |
| 37.5° | 800.7 | 797.3 | 796.8 | 797.7 | 796.5 | 797.1 | 803.9 | 813.3 | 821.0 | 825.1 | 824.6 |
| 40° | 869.6 | 864.9 | 867.8 | 865.7 | 863.2 | 862.6 | 864.9 | 868.6 | 872.2 | 872.1 | 871.3 |
| 42.5° | 959.8 | 962.0 | 963.1 | 954.9 | 949.5 | 948.2 | 953.6 | 952.3 | 956.1 | 954.6 | 951.0 |
| 45° | 1093.6 | 1092.2 | 1090.2 | 1080.3 | 1071.8 | 1065.1 | 1066.5 | 1064.5 | 1064.8 | 1062.5 | 1059.7 |
| 47.5° | 1228.6 | 1233.4 | 1225.1 | 1220.3 | 1210.8 | 1206.0 | 1209.9 | 1206.4 | 1213.1 | 1201.1 | 1195.4 |
| 50° | 1359.6 | 1362.9 | 1360.1 | 1353.4 | 1353.4 | 1360.1 | 1365.0 | 1371.2 | 1380.1 | 1366.6 | 1346.3 |
| 52.5° | 1466.8 | 1469.6 | 1474.0 | 1479.6 | 1493.5 | 1507.8 | 1528.1 | 1549.8 | 1567.0 | 1564.6 | 1541.3 |
| 55° | 1532.4 | 1535.8 | 1542.8 | 1562.3 | 1587.2 | 1625.0 | 1671.0 | 1721.5 | 1761.0 | 1780.3 | 1763.3 |
| 57.5° | 1554.4 | 1556.9 | 1576.2 | 1599.6 | 1638.2 | 1694.4 | 1771.6 | 1858.8 | 1934.7 | 1983.0 | 1975.3 |
| 60° | 1549.3 | 1549.3 | 1568.7 | 1600.9 | 1655.1 | 1729.7 | 1838.8 | 1959.6 | 2075.9 | 2148.2 | 2137.4 |
| 62.5° | 1496.0 | 1498.8 | 1526.7 | 1565.4 | 1630.9 | 1720.1 | 1849.9 | 2004.5 | 2143.6 | 2233.5 | 2224.7 |
| 65° | 1379.1 | 1380.9 | 1411.3 | 1457.2 | 1530.4 | 1636.0 | 1778.0 | 1949.1 | 2108.6 | 2195.0 | 2178.7 |
| 67.5° | 1190.2 | 1192.1 | 1216.7 | 1268.6 | 1346.0 | 1456.4 | 1609.7 | 1798.0 | 1954.2 | 2022.6 | 1973.4 |
| 70° | 946.7 | 952.3 | 968.3 | 1023.2 | 1082.0 | 1190.2 | 1331.4 | 1519.7 | 1667.0 | 1731.7 | 1677.5 |
| 72.5° | 645.2 | 659.6 | 678.9 | 727.7 | 783.8 | 873.6 | 986.0 | 1144.7 | 1263.0 | 1337.7 | 1289.5 |
| 75° | 363.4 | 383.7 | 389.6 | 426.7 | 473.0 | 543.8 | 625.9 | 739.8 | 859.3 | 919.9 | 861.8 |
| 77.5° | 157.0 | 173.7 | 180.9 | 198.1 | 234.4 | 264.0 | 314.0 | 390.8 | 483.1 | 525.8 | 456.0 |
| 80° | 77.3 | 81.2 | 84.5 | 89.7 | 99.9 | 109.5 | 133.3 | 166.8 | 204.8 | 214.3 | 170.6 |
| 82.5° | 59.9 | 62.6 | 68.1 | 72.3 | 74.8 | 77.3 | 79.6 | 84.1 | 87.8 | 89.7 | 84.8 |
| 85° | 42.1 | 45.8 | 51.6 | 56.5 | 59.3 | 61.3 | 63.2 | 64.7 | 61.2 | 56.0 | 58.8 |
| 87.5° | 11.0 | 14.4 | 20.1 | 21.8 | 24.6 | 26.0 | 25.4 | 26.2 | 23.7 | 17.2 | 19.2 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 362.6 | 362.6 | 362.6 | 362.6 | 362.6 | 362.6 | 362.6 | 362.6 |
| 2.5° | 364.6 | 364.2 | 364.6 | 364.6 | 364.6 | 364.2 | 364.2 | 364.2 |
| 5° | 371.0 | 371.0 | 371.3 | 370.8 | 370.8 | 371.0 | 370.8 | 370.5 |
| 7.5° | 382.1 | 381.8 | 381.7 | 381.6 | 381.8 | 381.5 | 381.6 | 381.1 |
| 10° | 396.7 | 396.2 | 396.4 | 395.6 | 395.6 | 395.3 | 395.3 | 395.3 |
| 12.5° | 412.5 | 411.6 | 411.9 | 411.2 | 409.7 | 409.9 | 410.4 | 409.9 |
| 15° | 427.8 | 426.9 | 426.1 | 425.5 | 424.7 | 425.0 | 424.9 | 424.7 |
| 17.5° | 443.3 | 441.7 | 441.3 | 440.5 | 440.2 | 440.2 | 440.2 | 440.5 |
| 20° | 459.4 | 458.2 | 458.0 | 457.2 | 456.9 | 457.7 | 458.0 | 457.4 |
| 22.5° | 476.6 | 476.1 | 476.7 | 476.1 | 476.9 | 477.5 | 477.7 | 477.2 |
| 25° | 498.4 | 497.8 | 498.7 | 500.6 | 501.8 | 502.4 | 503.7 | 503.2 |
| 27.5° | 526.3 | 525.8 | 527.7 | 530.6 | 532.2 | 535.1 | 536.5 | 537.0 |
| 30° | 562.5 | 565.0 | 566.1 | 571.8 | 572.8 | 577.4 | 577.4 | 579.4 |
| 32.5° | 614.9 | 619.8 | 628.2 | 637.1 | 649.1 | 657.8 | 657.9 | 662.4 |
| 35° | 730.3 | 732.1 | 738.7 | 740.1 | 742.6 | 745.4 | 742.6 | 744.9 |
| 37.5° | 818.5 | 809.8 | 803.5 | 794.8 | 789.4 | 789.4 | 790.1 | 789.4 |
| 40° | 863.7 | 860.3 | 857.5 | 850.2 | 849.1 | 848.7 | 848.7 | 849.9 |
| 42.5° | 944.5 | 936.4 | 931.8 | 925.6 | 923.5 | 923.0 | 922.7 | 923.3 |
| 45° | 1049.5 | 1036.3 | 1024.1 | 1017.8 | 1012.5 | 1007.5 | 1009.1 | 1009.1 |
| 47.5° | 1171.8 | 1151.2 | 1131.4 | 1120.6 | 1111.3 | 1107.2 | 1104.2 | 1103.4 |
| 50° | 1320.6 | 1291.8 | 1266.4 | 1246.4 | 1232.7 | 1232.5 | 1234.0 | 1224.9 |
| 52.5° | 1503.0 | 1457.5 | 1425.9 | 1398.8 | 1386.1 | 1384.7 | 1380.1 | 1375.1 |
| 55° | 1705.2 | 1651.2 | 1599.0 | 1569.8 | 1553.3 | 1544.2 | 1538.9 | 1530.4 |
| 57.5° | 1913.6 | 1841.0 | 1765.8 | 1719.3 | 1689.9 | 1669.5 | 1658.9 | 1654.1 |
| 60° | 2074.2 | 1975.1 | 1876.0 | 1801.1 | 1752.3 | 1722.1 | 1703.4 | 1695.9 |
| 62.5° | 2137.4 | 2003.1 | 1876.1 | 1777.7 | 1707.2 | 1665.4 | 1640.3 | 1629.2 |
| 65° | 2062.1 | 1902.8 | 1758.2 | 1649.8 | 1571.0 | 1524.5 | 1497.0 | 1485.2 |
| 67.5° | 1851.4 | 1710.8 | 1553.6 | 1445.7 | 1364.6 | 1318.5 | 1288.9 | 1280.2 |
| 70° | 1552.1 | 1408.4 | 1258.2 | 1161.9 | 1089.6 | 1052.0 | 1021.3 | 1017.6 |
| 72.5° | 1166.4 | 1042.5 | 913.7 | 834.1 | 776.0 | 713.8 | 698.0 | 705.9 |
| 75° | 747.8 | 631.7 | 517.0 | 445.3 | 392.2 | 332.8 | 310.1 | 315.6 |
| 77.5° | 354.1 | 274.2 | 197.9 | 153.1 | 128.5 | 109.8 | 105.1 | 102.2 |
| 80° | 131.3 | 106.5 | 94.1 | 89.2 | 85.8 | 82.7 | 80.4 | 77.9 |
| 82.5° | 85.0 | 83.0 | 80.4 | 79.6 | 77.1 | 73.2 | 65.8 | 62.7 |
| 85° | 63.5 | 63.5 | 60.1 | 60.4 | 58.4 | 53.4 | 46.5 | 42.9 |
| 87.5° | 18.7 | 16.7 | 15.2 | 14.1 | 13.9 | 12.4 | 9.0 | 7.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)