

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: P553734

Luminaire Tested: **LXS-VA2-740-U-AST-A**

Issue Date: 7/13/2021

Test Information

Test Method: LM-79-08
Report Number: P553734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1803-687-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: LXS-VA2-740-U-AST-A
Description: LUXESCAPE OUTDOOR ARCHITECTURAL LUMINAIRE
70 CRI, 4000K LEDS AND TYPE IV OPTIC, ARM MOUNT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4977 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

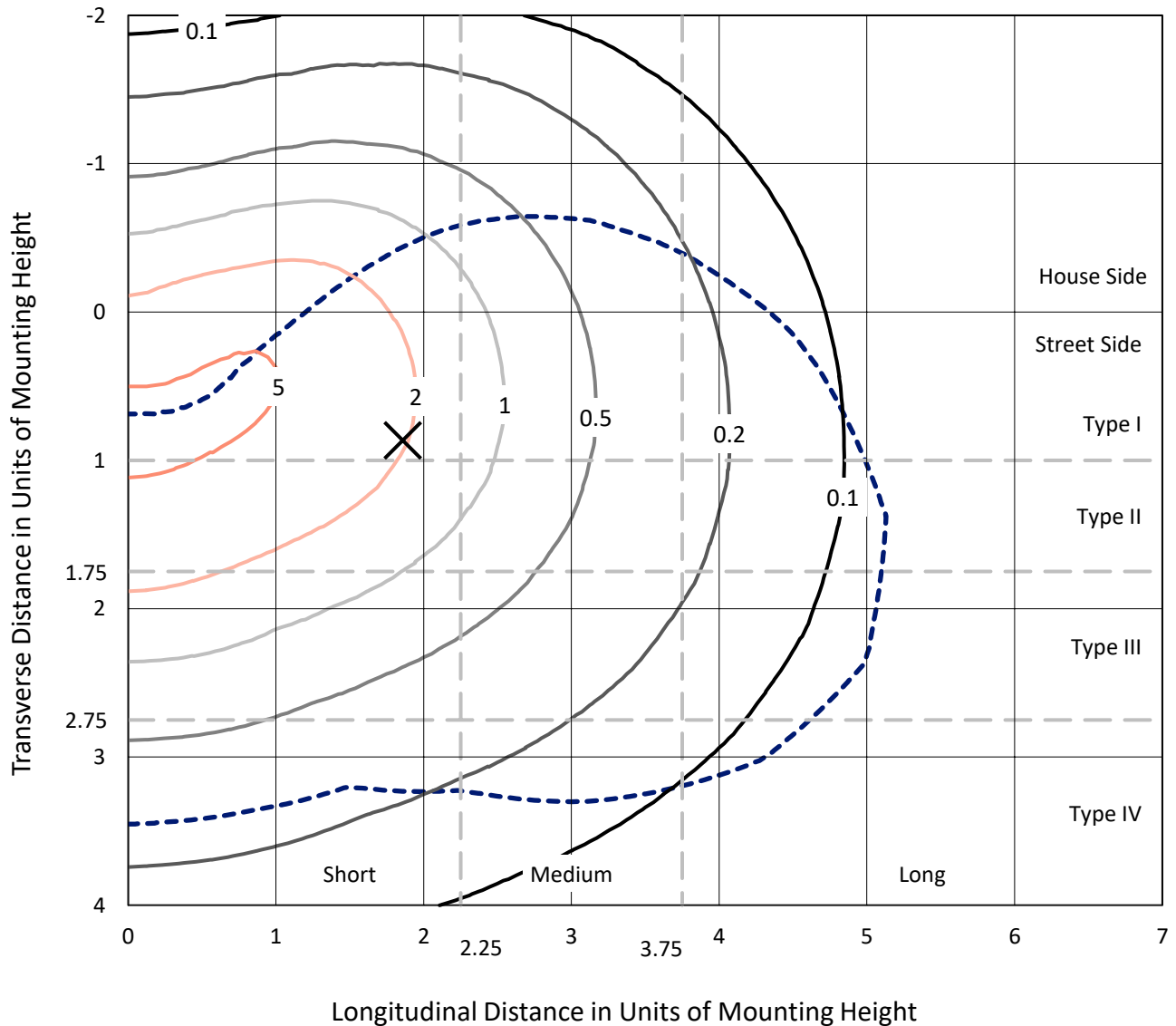
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

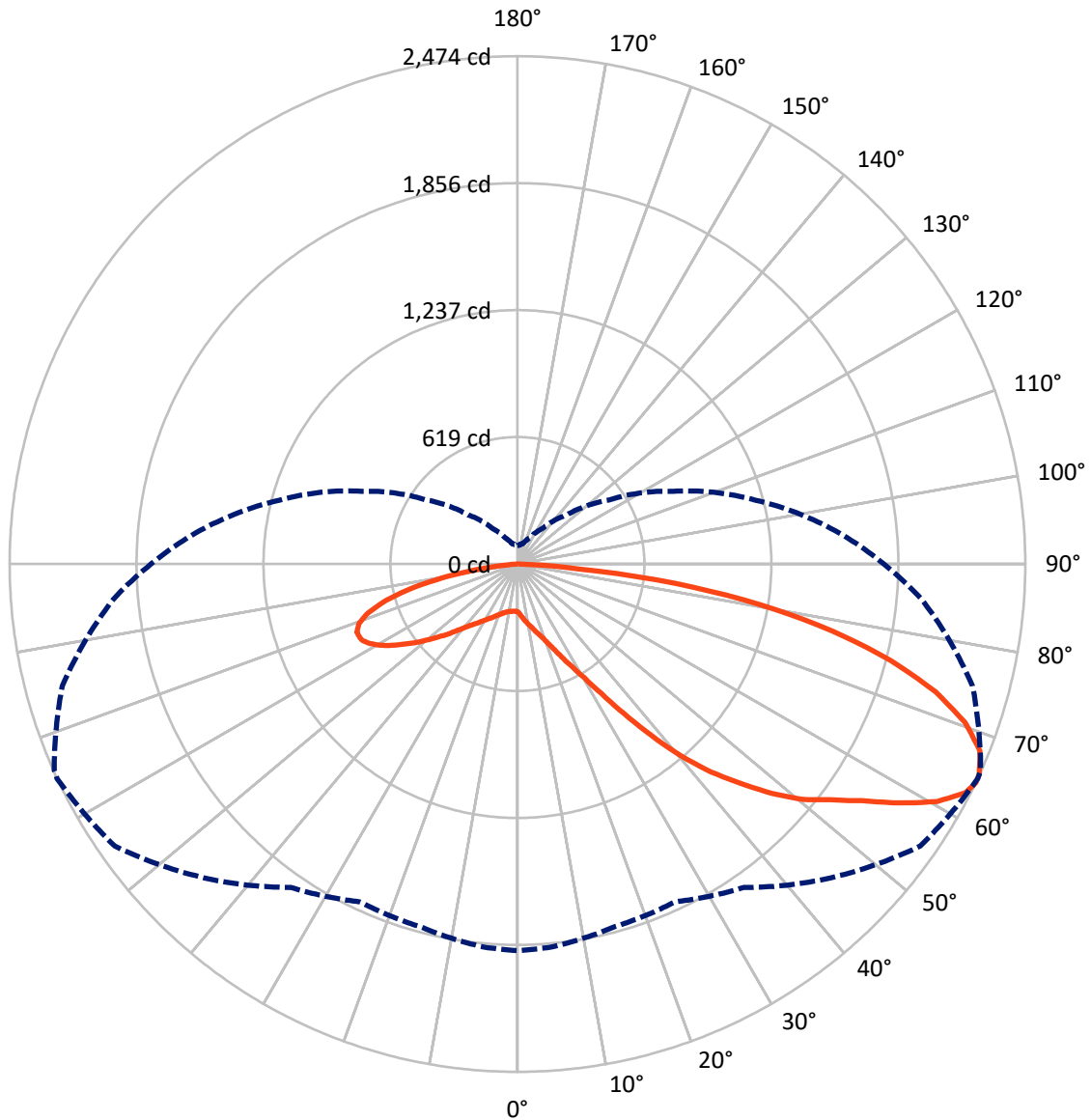
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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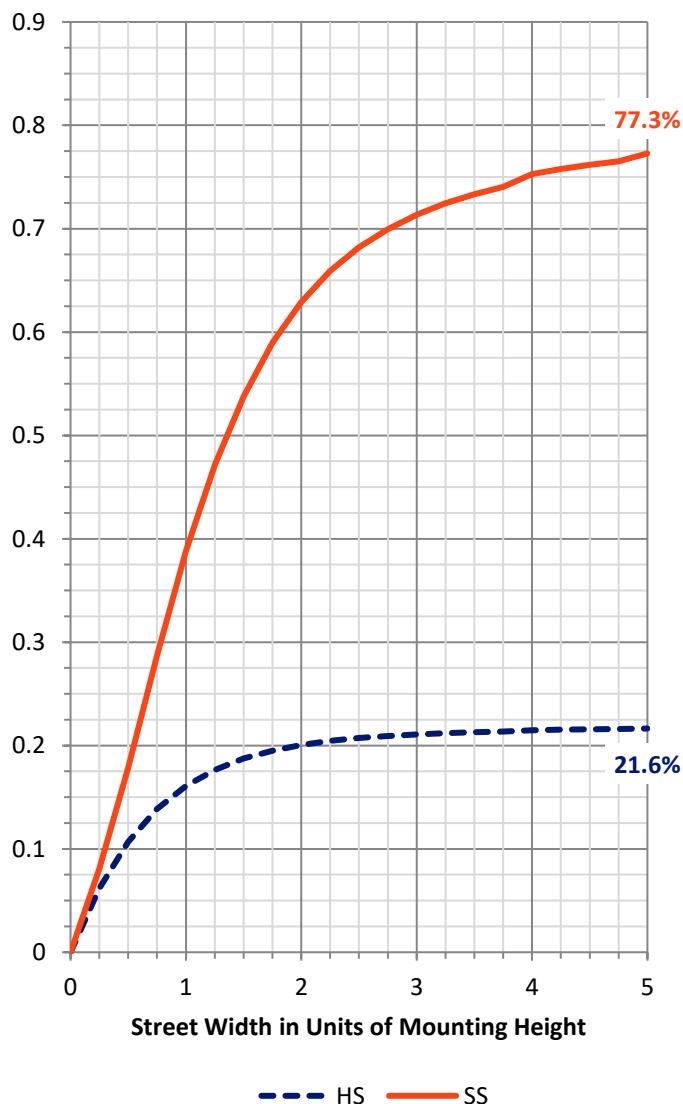
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1080.7 | 0.0 | 1080.7 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 3896.3 | 0.0 | 3896.3 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 4977.0 | 0.0 | 4977.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 24.0 | 0.5 |
| 10°-20° | 83.2 | 1.7 |
| 20°-30° | 184.3 | 3.7 |
| 30°-40° | 408.7 | 8.2 |
| 40°-50° | 724.8 | 14.6 |
| 50°-60° | 1059.2 | 21.3 |
| 60°-70° | 1281.6 | 25.8 |
| 70°-80° | 987.6 | 19.8 |
| 80°-90° | 223.6 | 4.5 |
| 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° | 4977.0 | 100.0 |
| 0°-180° | 4977.0 | 100.0 |

Coefficient of Utilization



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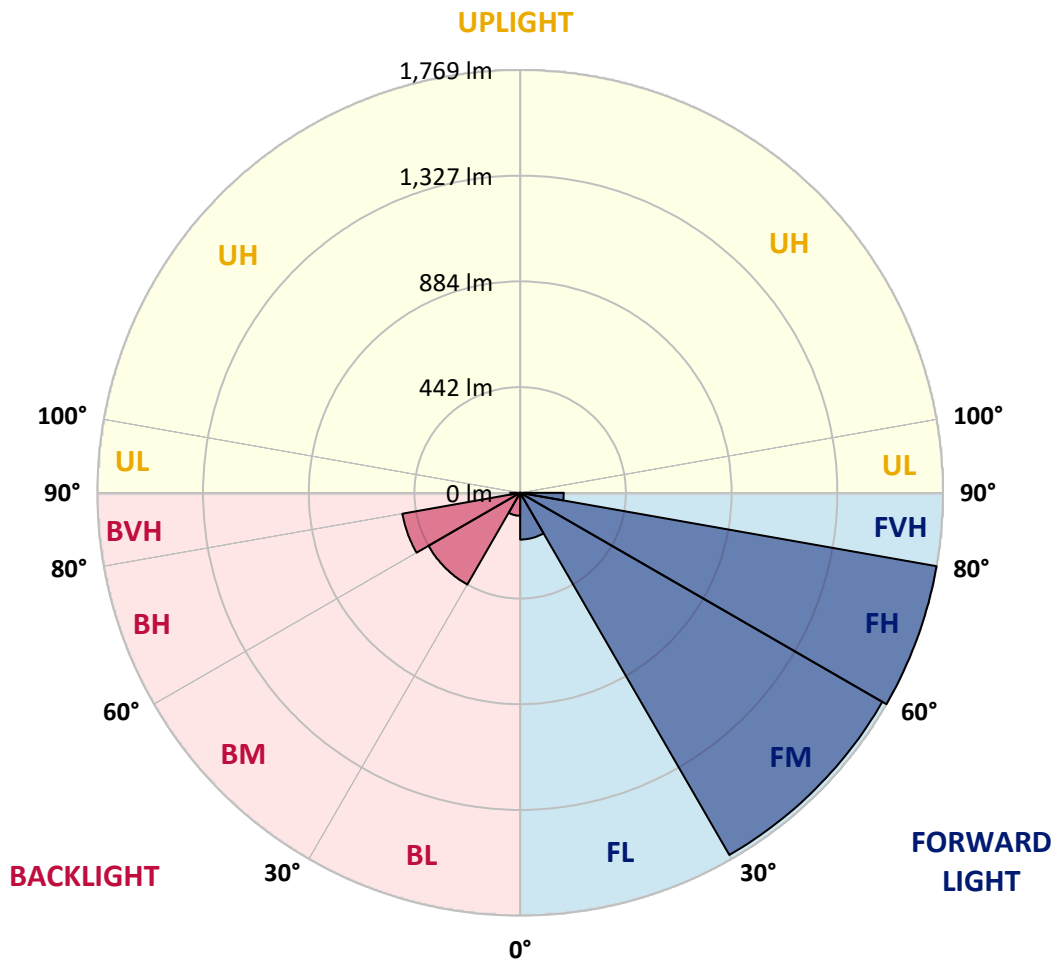
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 195.5 | 3.9 | | | |
| FM | (30°-60°) | 1749.5 | 35.2 | | | |
| FH | (60°-80°) | 1768.9 | 35.5 | | | G1/1800 |
| FVH | (80°-90°) | 182.4 | 3.7 | | | G2/225 |
| BL | (0°-30°) | 96.1 | 1.9 | B0/110 | | |
| BM | (30°-60°) | 443.2 | 8.9 | B1/1000 | | |
| BH | (60°-80°) | 500.3 | 10.1 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 41.2 | 0.8 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 232.3 | 232.3 | 232.3 | 232.3 | 232.3 | 232.3 | 232.3 | 232.3 | 232.3 | 232.3 | 232.3 |
| 2.5° | 261.1 | 261.1 | 259.1 | 259.1 | 257.2 | 253.4 | 251.5 | 245.7 | 245.7 | 241.9 | 238.0 |
| 5° | 282.2 | 282.2 | 282.2 | 280.3 | 278.3 | 274.5 | 270.7 | 263.0 | 263.0 | 255.3 | 249.5 |
| 7.5° | 301.4 | 301.4 | 299.4 | 299.4 | 295.6 | 293.7 | 289.9 | 280.3 | 280.3 | 270.7 | 259.1 |
| 10° | 328.2 | 326.3 | 324.4 | 322.5 | 318.6 | 312.9 | 309.0 | 299.4 | 297.5 | 286.0 | 272.6 |
| 12.5° | 353.2 | 353.2 | 353.2 | 351.3 | 347.4 | 339.8 | 330.2 | 318.6 | 318.6 | 303.3 | 286.0 |
| 15° | 382.0 | 380.1 | 380.1 | 378.1 | 376.2 | 370.5 | 357.0 | 343.6 | 341.7 | 326.3 | 303.3 |
| 17.5° | 426.1 | 424.2 | 420.4 | 412.7 | 406.9 | 403.1 | 391.6 | 368.6 | 368.6 | 351.3 | 326.3 |
| 20° | 479.9 | 478.0 | 472.2 | 464.5 | 451.1 | 439.6 | 430.0 | 403.1 | 399.3 | 380.1 | 349.4 |
| 22.5° | 549.0 | 545.2 | 537.5 | 527.9 | 516.4 | 491.4 | 474.1 | 447.3 | 439.6 | 412.7 | 378.1 |
| 25° | 645.0 | 641.1 | 625.8 | 597.0 | 577.8 | 562.4 | 527.9 | 501.0 | 493.3 | 453.0 | 412.7 |
| 27.5° | 727.5 | 725.6 | 717.9 | 700.6 | 660.3 | 639.2 | 598.9 | 566.3 | 558.6 | 504.8 | 453.0 |
| 30° | 852.3 | 846.5 | 827.3 | 806.2 | 787.0 | 740.9 | 702.6 | 645.0 | 637.3 | 572.0 | 504.8 |
| 32.5° | 1074.9 | 1063.4 | 1028.9 | 965.5 | 934.8 | 881.1 | 838.8 | 752.5 | 739.0 | 662.2 | 570.1 |
| 35° | 1347.5 | 1334.1 | 1270.7 | 1178.6 | 1090.3 | 1051.9 | 979.0 | 894.5 | 871.5 | 775.5 | 648.8 |
| 37.5° | 1478.0 | 1470.4 | 1426.2 | 1343.7 | 1259.2 | 1201.6 | 1138.3 | 1059.6 | 1032.7 | 909.9 | 740.9 |
| 40° | 1562.5 | 1560.6 | 1524.1 | 1458.9 | 1403.2 | 1337.9 | 1303.4 | 1230.4 | 1203.6 | 1059.6 | 856.1 |
| 42.5° | 1618.2 | 1616.3 | 1595.1 | 1537.6 | 1514.5 | 1470.4 | 1451.2 | 1385.9 | 1364.8 | 1215.1 | 980.9 |
| 45° | 1633.5 | 1627.8 | 1618.2 | 1614.3 | 1585.5 | 1593.2 | 1593.2 | 1524.1 | 1510.7 | 1368.6 | 1119.1 |
| 47.5° | 1687.3 | 1681.5 | 1641.2 | 1631.6 | 1648.9 | 1700.7 | 1718.0 | 1670.0 | 1660.4 | 1510.7 | 1245.8 |
| 50° | 1683.4 | 1683.4 | 1685.4 | 1645.0 | 1714.2 | 1769.8 | 1814.0 | 1802.5 | 1794.8 | 1641.2 | 1380.2 |
| 52.5° | 1712.2 | 1706.5 | 1679.6 | 1700.7 | 1733.3 | 1827.4 | 1904.2 | 1908.0 | 1909.9 | 1766.0 | 1503.0 |
| 55° | 1908.0 | 1908.0 | 1848.5 | 1796.7 | 1844.7 | 1963.7 | 2053.9 | 2034.7 | 2030.9 | 1894.6 | 1622.0 |
| 57.5° | 1992.5 | 1984.8 | 1940.7 | 1885.0 | 1959.9 | 2107.7 | 2220.9 | 2196.0 | 2184.4 | 2029.0 | 1735.3 |
| 60° | 1959.9 | 1948.3 | 1925.3 | 1900.3 | 1996.3 | 2172.9 | 2339.9 | 2349.5 | 2339.9 | 2151.8 | 1844.7 |
| 62.5° | 1933.0 | 1923.4 | 1867.7 | 1867.7 | 1963.7 | 2182.5 | 2391.8 | 2451.3 | 2441.7 | 2251.6 | 1936.8 |
| 64° | 1883.1 | 1873.5 | 1829.3 | 1815.9 | 1923.4 | 2161.4 | 2395.6 | 2474.3 | 2470.5 | 2295.8 | 1977.1 |
| 65° | 1817.8 | 1815.9 | 1790.9 | 1773.7 | 1892.7 | 2138.4 | 2384.1 | 2472.4 | 2472.4 | 2313.0 | 1990.6 |
| 67.5° | 1647.0 | 1637.4 | 1666.2 | 1662.3 | 1800.5 | 2059.7 | 2315.0 | 2430.1 | 2428.2 | 2305.4 | 1986.7 |
| 70° | 1483.8 | 1476.1 | 1501.1 | 1528.0 | 1675.8 | 1927.2 | 2192.1 | 2313.0 | 2311.1 | 2217.1 | 1921.5 |
| 72.5° | 1320.6 | 1330.2 | 1336.0 | 1366.7 | 1501.1 | 1748.7 | 2005.9 | 2130.7 | 2126.9 | 2050.1 | 1790.9 |
| 75° | 1165.2 | 1153.6 | 1159.4 | 1172.8 | 1301.5 | 1529.9 | 1766.0 | 1879.2 | 1877.3 | 1812.0 | 1585.5 |
| 77.5° | 967.4 | 961.7 | 963.6 | 961.7 | 1084.5 | 1276.5 | 1470.4 | 1568.3 | 1566.3 | 1504.9 | 1305.3 |
| 80° | 756.3 | 742.9 | 744.8 | 735.2 | 838.8 | 986.6 | 1130.6 | 1199.7 | 1188.2 | 1140.2 | 971.3 |
| 82.5° | 524.0 | 508.7 | 504.8 | 493.3 | 575.9 | 669.9 | 748.6 | 775.5 | 762.1 | 717.9 | 593.1 |
| 85° | 226.5 | 205.4 | 234.2 | 234.2 | 259.1 | 282.2 | 299.4 | 293.7 | 286.0 | 266.8 | 199.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 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° | 232.3 | 232.3 | 232.3 | 232.3 | 232.3 | 232.3 | 232.3 | 232.3 | 232.3 | 232.3 | 232.3 |
| 2.5° | 238.0 | 236.1 | 232.3 | 230.3 | 228.4 | 226.5 | 224.6 | 222.7 | 222.7 | 222.7 | 220.7 |
| 5° | 245.7 | 241.9 | 236.1 | 230.3 | 226.5 | 220.7 | 216.9 | 213.1 | 211.1 | 209.2 | 209.2 |
| 7.5° | 253.4 | 249.5 | 239.9 | 232.3 | 222.7 | 215.0 | 207.3 | 203.5 | 199.6 | 197.7 | 197.7 |
| 10° | 264.9 | 259.1 | 245.7 | 234.2 | 220.7 | 211.1 | 201.6 | 195.8 | 192.0 | 192.0 | 190.0 |
| 12.5° | 276.4 | 268.7 | 255.3 | 238.0 | 220.7 | 209.2 | 199.6 | 192.0 | 186.2 | 184.3 | 184.3 |
| 15° | 293.7 | 284.1 | 264.9 | 243.8 | 224.6 | 209.2 | 195.8 | 184.3 | 178.5 | 174.7 | 174.7 |
| 17.5° | 311.0 | 299.4 | 276.4 | 251.5 | 230.3 | 209.2 | 192.0 | 180.4 | 172.8 | 168.9 | 168.9 |
| 20° | 332.1 | 318.6 | 289.9 | 261.1 | 236.1 | 209.2 | 190.0 | 176.6 | 167.0 | 163.2 | 163.2 |
| 22.5° | 357.0 | 339.8 | 305.2 | 270.7 | 239.9 | 211.1 | 190.0 | 172.8 | 161.2 | 155.5 | 155.5 |
| 25° | 385.8 | 364.7 | 322.5 | 284.1 | 245.7 | 215.0 | 188.1 | 167.0 | 155.5 | 149.7 | 149.7 |
| 27.5° | 420.4 | 397.3 | 341.7 | 297.5 | 253.4 | 218.8 | 186.2 | 165.1 | 151.6 | 144.0 | 144.0 |
| 30° | 460.7 | 431.9 | 366.6 | 312.9 | 263.0 | 220.7 | 188.1 | 163.2 | 147.8 | 140.1 | 138.2 |
| 32.5° | 514.4 | 476.0 | 395.4 | 330.2 | 274.5 | 224.6 | 188.1 | 159.3 | 144.0 | 136.3 | 136.3 |
| 35° | 579.7 | 529.8 | 430.0 | 349.4 | 284.1 | 230.3 | 188.1 | 159.3 | 140.1 | 132.4 | 130.5 |
| 37.5° | 660.3 | 593.1 | 472.2 | 372.4 | 297.5 | 236.1 | 188.1 | 157.4 | 136.3 | 128.6 | 126.7 |
| 40° | 756.3 | 669.9 | 518.3 | 399.3 | 311.0 | 241.9 | 192.0 | 155.5 | 136.3 | 126.7 | 126.7 |
| 42.5° | 863.8 | 762.1 | 575.9 | 433.8 | 330.2 | 251.5 | 193.9 | 155.5 | 134.4 | 122.9 | 122.9 |
| 45° | 980.9 | 863.8 | 643.0 | 476.0 | 353.2 | 261.1 | 195.8 | 157.4 | 130.5 | 120.9 | 119.0 |
| 47.5° | 1109.5 | 971.3 | 717.9 | 518.3 | 374.3 | 272.6 | 199.6 | 155.5 | 128.6 | 119.0 | 117.1 |
| 50° | 1228.5 | 1084.5 | 800.4 | 566.3 | 399.3 | 282.2 | 203.5 | 153.6 | 126.7 | 117.1 | 115.2 |
| 52.5° | 1343.7 | 1194.0 | 884.9 | 618.1 | 426.1 | 295.6 | 207.3 | 153.6 | 124.8 | 113.3 | 111.3 |
| 55° | 1453.1 | 1295.7 | 967.4 | 671.8 | 456.9 | 309.0 | 211.1 | 153.6 | 122.9 | 111.3 | 109.4 |
| 57.5° | 1552.9 | 1391.7 | 1044.2 | 727.5 | 489.5 | 322.5 | 213.1 | 151.6 | 120.9 | 107.5 | 105.6 |
| 60° | 1656.6 | 1485.7 | 1113.3 | 779.3 | 520.2 | 334.0 | 215.0 | 149.7 | 115.2 | 103.7 | 101.7 |
| 62.5° | 1744.9 | 1564.4 | 1172.8 | 821.6 | 537.5 | 337.8 | 213.1 | 144.0 | 109.4 | 96.0 | 94.1 |
| 64° | 1785.2 | 1595.1 | 1201.6 | 838.8 | 545.2 | 337.8 | 211.1 | 140.1 | 103.7 | 92.1 | 90.2 |
| 65° | 1800.5 | 1610.5 | 1213.2 | 846.5 | 549.0 | 337.8 | 207.3 | 138.2 | 99.8 | 90.2 | 88.3 |
| 67.5° | 1806.3 | 1616.3 | 1220.8 | 850.4 | 545.2 | 330.2 | 197.7 | 128.6 | 84.5 | 80.6 | 78.7 |
| 70° | 1752.5 | 1568.3 | 1184.4 | 823.5 | 522.1 | 311.0 | 184.3 | 115.2 | 71.0 | 67.2 | 69.1 |
| 72.5° | 1631.6 | 1460.8 | 1105.7 | 762.1 | 479.9 | 282.2 | 163.2 | 99.8 | 59.5 | 57.6 | 59.5 |
| 75° | 1435.8 | 1282.3 | 969.4 | 664.2 | 416.5 | 243.8 | 138.2 | 78.7 | 46.1 | 48.0 | 49.9 |
| 77.5° | 1190.1 | 1057.7 | 785.1 | 533.6 | 330.2 | 190.0 | 105.6 | 53.7 | 34.6 | 38.4 | 38.4 |
| 80° | 871.5 | 767.8 | 562.4 | 372.4 | 228.4 | 126.7 | 65.3 | 32.6 | 23.0 | 26.9 | 26.9 |
| 82.5° | 520.2 | 447.3 | 318.6 | 207.3 | 122.9 | 61.4 | 28.8 | 13.4 | 11.5 | 15.4 | 15.4 |
| 85° | 184.3 | 151.6 | 97.9 | 57.6 | 30.7 | 13.4 | 5.8 | 1.9 | 1.9 | 0.0 | 0.0 |
| 87.5° | 1.9 | 0.0 | 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 |

(END OF REPORT)