

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: P675526

Luminaire Tested: **CCW-SA-1F-727-U-SL3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675526
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-727-U-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL3 distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

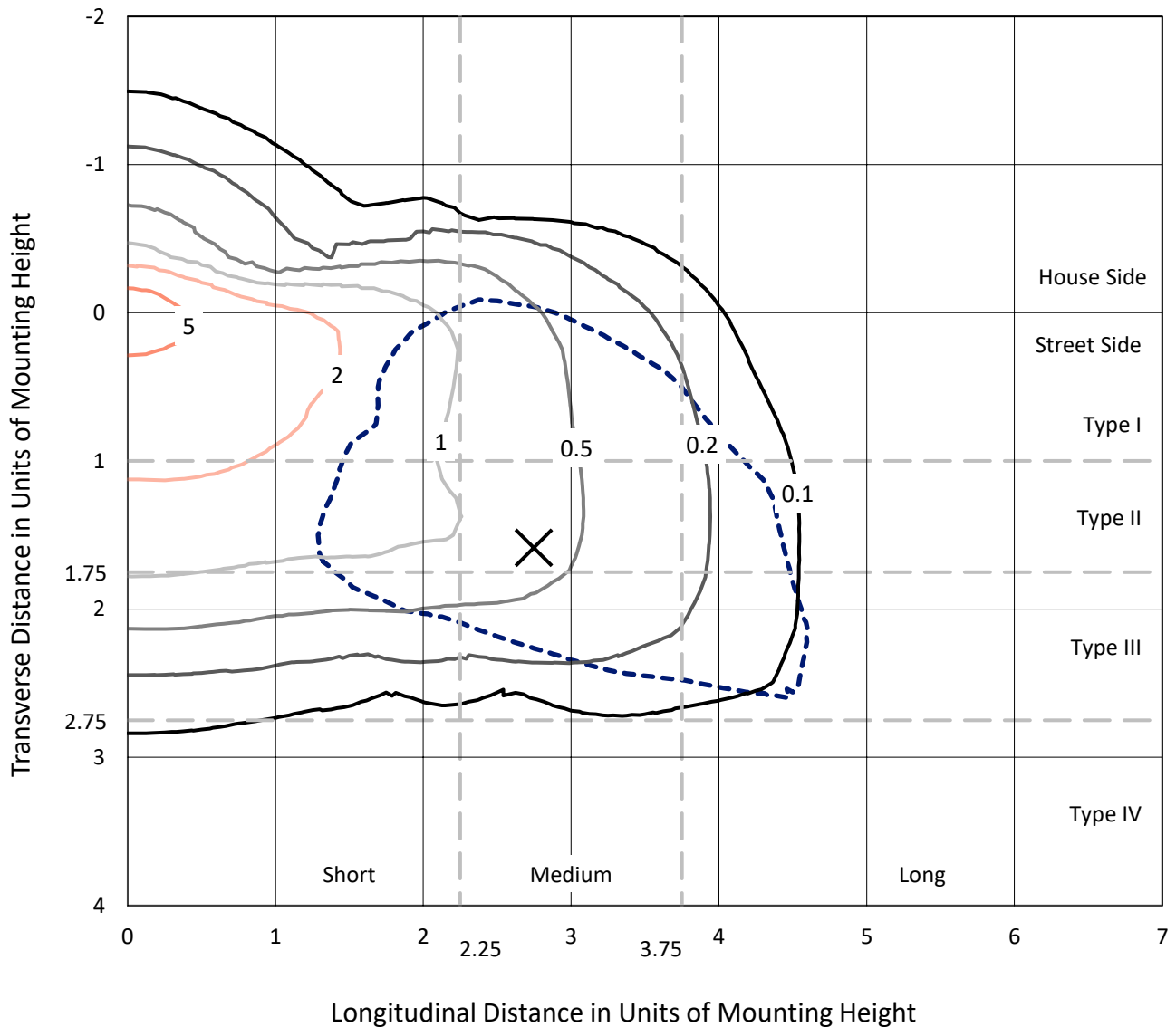
Lumens per Lamp: N/A
Luminaire Lumens: 6199.7 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

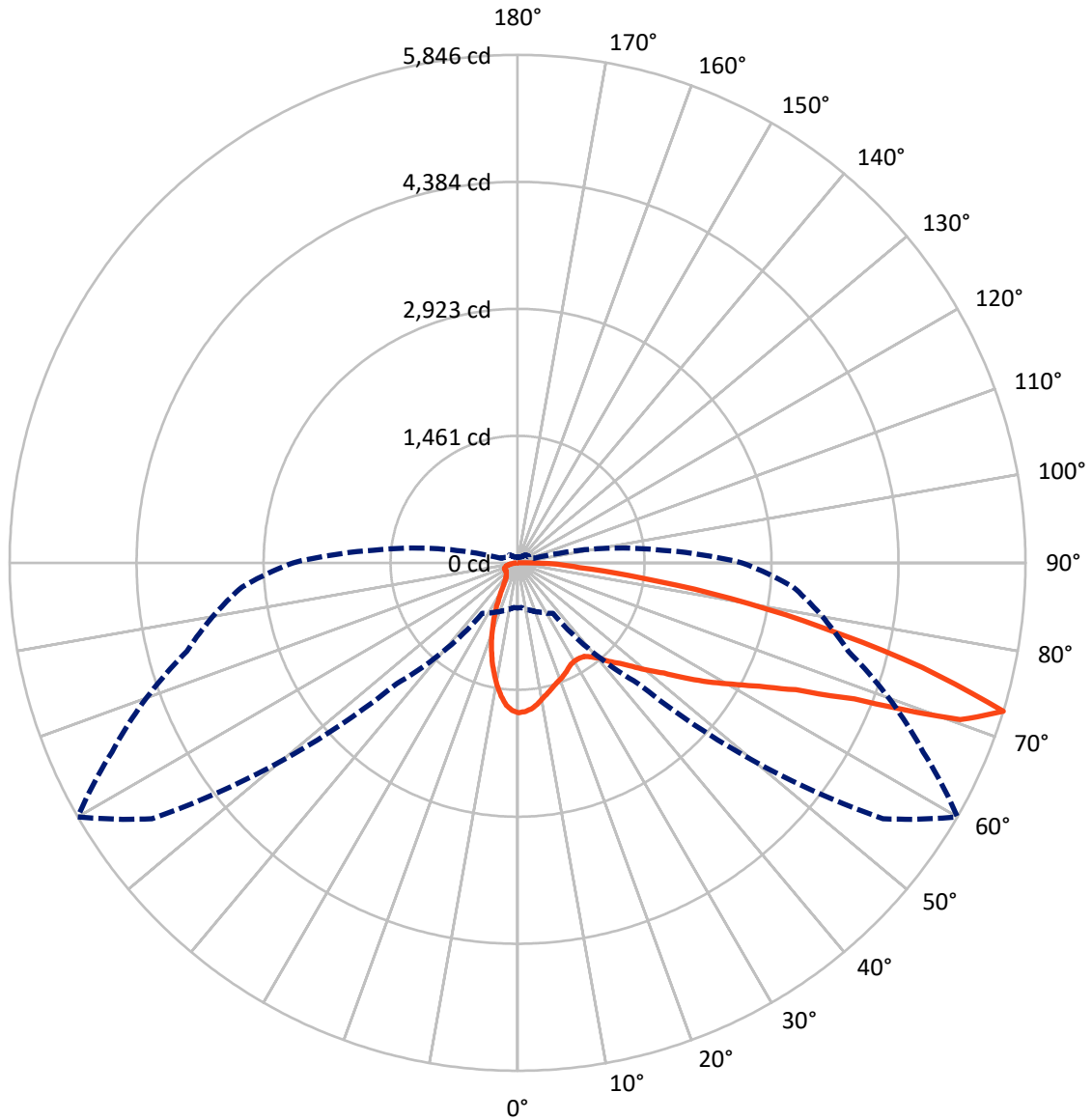
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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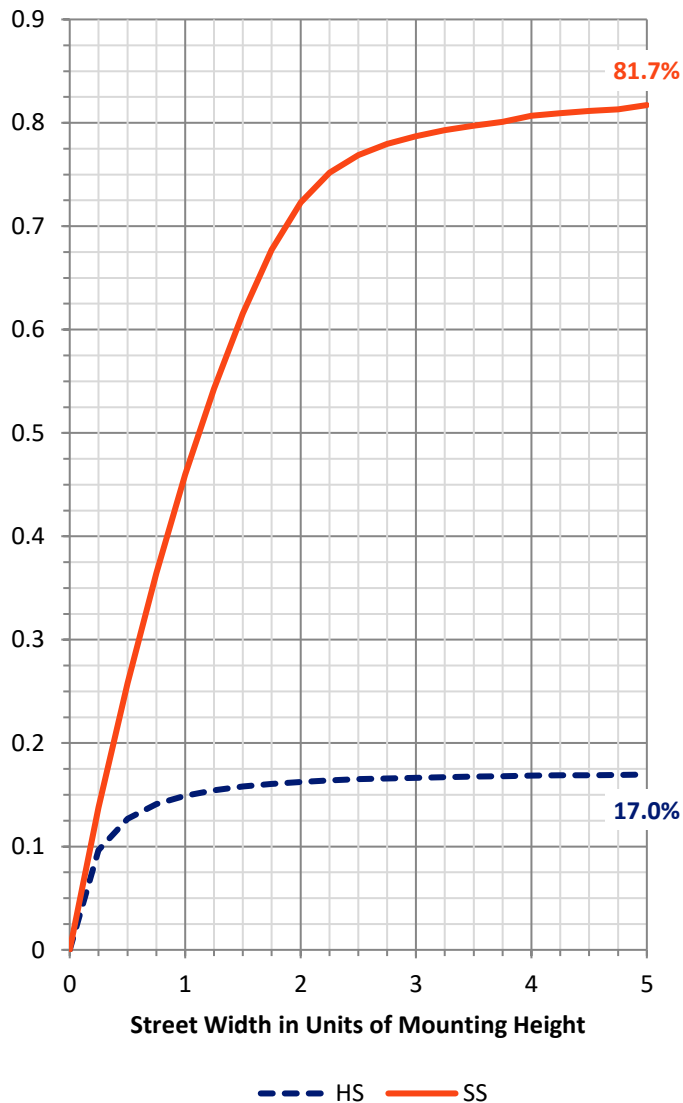
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1065.0 | 0.0 | 1065.0 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 5134.7 | 0.0 | 5134.7 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 6199.7 | 0.0 | 6199.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 149.6 | 2.4 |
| 10°-20° | 339.3 | 5.5 |
| 20°-30° | 434.2 | 7.0 |
| 30°-40° | 555.5 | 9.0 |
| 40°-50° | 761.9 | 12.3 |
| 50°-60° | 1102.0 | 17.8 |
| 60°-70° | 1511.8 | 24.4 |
| 70°-80° | 1134.4 | 18.3 |
| 80°-90° | 210.8 | 3.4 |
| 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° | 6199.7 | 100.0 |
| 0°-180° | 6199.7 | 100.0 |

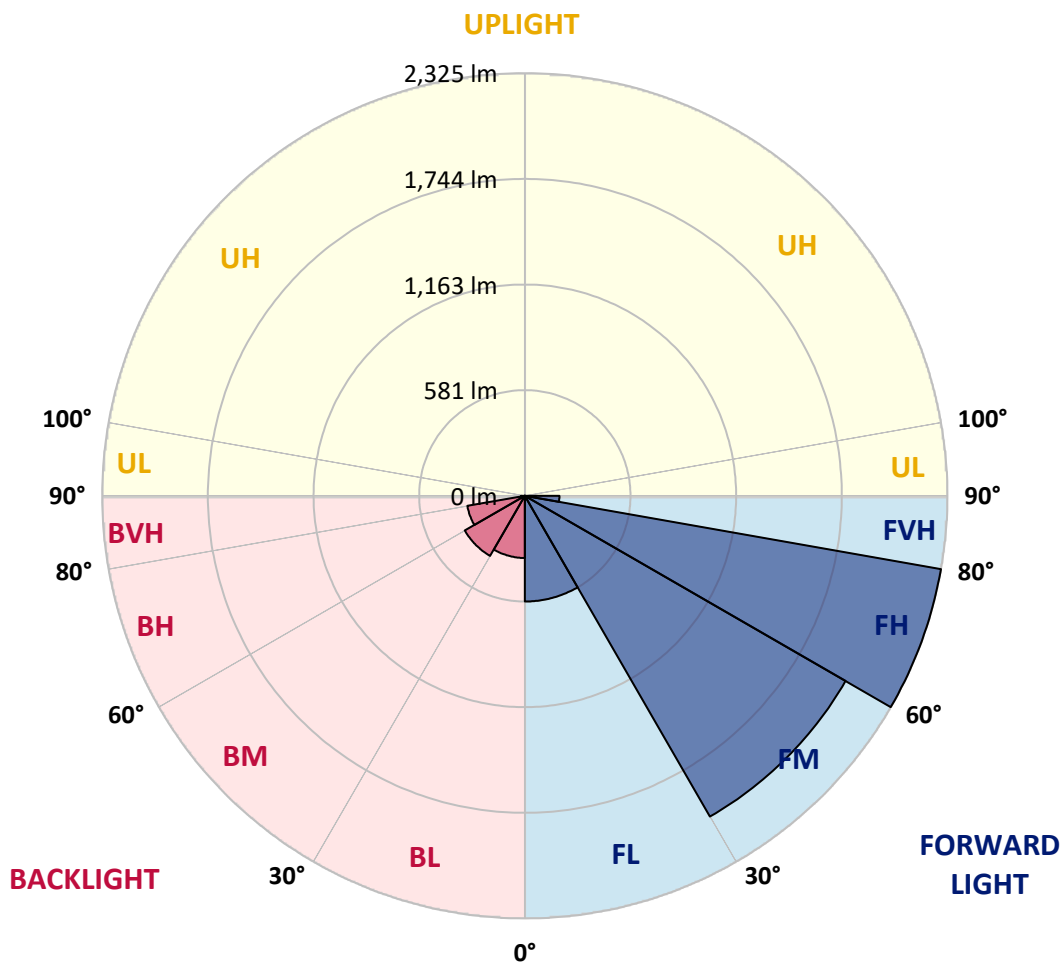


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 581.3 | 9.4 | | | |
| FM (30°-60°) | 2037.8 | 32.9 | | | |
| FH (60°-80°) | 2325.3 | 37.5 | | | G2/5000 |
| FVH (80°-90°) | 190.3 | 3.1 | | | G2/225 |
| BL (0°-30°) | 341.9 | 5.5 | B1/500 | | |
| BM (30°-60°) | 381.7 | 6.2 | B1/1000 | | |
| BH (60°-80°) | 320.9 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 20.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1726.3 | 1726.3 | 1726.3 | 1726.3 | 1726.3 | 1726.3 | 1726.3 | 1726.3 | 1726.3 | 1726.3 | 1726.3 |
| 2.5° | 1689.4 | 1705.5 | 1710.2 | 1710.2 | 1724.0 | 1707.8 | 1730.9 | 1712.5 | 1717.1 | 1724.0 | 1719.4 |
| 5° | 1608.6 | 1636.3 | 1620.1 | 1650.1 | 1638.6 | 1659.4 | 1687.1 | 1687.1 | 1680.2 | 1694.0 | 1682.5 |
| 7.5° | 1530.1 | 1520.9 | 1548.6 | 1548.6 | 1567.1 | 1594.8 | 1617.8 | 1640.9 | 1643.2 | 1647.8 | 1645.5 |
| 10° | 1424.0 | 1435.5 | 1449.4 | 1467.8 | 1490.9 | 1518.6 | 1567.1 | 1585.5 | 1590.1 | 1617.8 | 1610.9 |
| 12.5° | 1336.3 | 1352.4 | 1361.7 | 1398.6 | 1419.4 | 1458.6 | 1514.0 | 1539.4 | 1541.7 | 1580.9 | 1580.9 |
| 15° | 1271.7 | 1280.9 | 1301.7 | 1315.5 | 1361.7 | 1417.1 | 1470.1 | 1493.2 | 1518.6 | 1560.1 | 1548.6 |
| 17.5° | 1227.8 | 1239.3 | 1248.6 | 1267.0 | 1310.9 | 1357.0 | 1440.1 | 1454.0 | 1484.0 | 1544.0 | 1530.1 |
| 20° | 1202.4 | 1204.7 | 1218.6 | 1230.1 | 1269.3 | 1313.2 | 1387.0 | 1424.0 | 1463.2 | 1516.3 | 1502.4 |
| 22.5° | 1207.0 | 1197.8 | 1195.5 | 1211.6 | 1218.6 | 1260.1 | 1350.1 | 1389.4 | 1444.7 | 1507.1 | 1484.0 |
| 25° | 1216.3 | 1218.6 | 1214.0 | 1200.1 | 1202.4 | 1239.3 | 1299.3 | 1350.1 | 1412.4 | 1504.8 | 1458.6 |
| 27.5° | 1239.3 | 1250.9 | 1232.4 | 1218.6 | 1204.7 | 1218.6 | 1280.9 | 1317.8 | 1387.0 | 1516.3 | 1456.3 |
| 30° | 1262.4 | 1274.0 | 1269.3 | 1248.6 | 1220.9 | 1216.3 | 1260.1 | 1306.3 | 1373.2 | 1525.5 | 1456.3 |
| 32.5° | 1297.0 | 1313.2 | 1297.0 | 1304.0 | 1271.7 | 1250.9 | 1267.0 | 1308.6 | 1387.0 | 1557.8 | 1458.6 |
| 35° | 1336.3 | 1350.1 | 1354.7 | 1338.6 | 1331.7 | 1292.4 | 1301.7 | 1322.4 | 1400.9 | 1594.8 | 1481.7 |
| 37.5° | 1380.1 | 1396.3 | 1410.1 | 1412.4 | 1389.4 | 1366.3 | 1361.7 | 1373.2 | 1435.5 | 1659.4 | 1507.1 |
| 40° | 1410.1 | 1419.4 | 1447.1 | 1470.1 | 1477.1 | 1444.7 | 1442.4 | 1442.4 | 1497.8 | 1717.1 | 1553.2 |
| 42.5° | 1460.9 | 1456.3 | 1495.5 | 1537.1 | 1548.6 | 1530.1 | 1534.8 | 1553.2 | 1585.5 | 1800.2 | 1627.1 |
| 45° | 1486.3 | 1481.7 | 1527.8 | 1597.1 | 1650.1 | 1640.9 | 1645.5 | 1652.5 | 1682.5 | 1931.7 | 1751.7 |
| 47.5° | 1520.9 | 1525.5 | 1592.5 | 1670.9 | 1726.3 | 1758.6 | 1784.0 | 1781.7 | 1804.8 | 2065.6 | 1890.2 |
| 50° | 1555.5 | 1564.8 | 1645.5 | 1728.6 | 1825.5 | 1880.9 | 1917.9 | 1943.3 | 1966.3 | 2206.4 | 2049.4 |
| 52.5° | 1622.5 | 1631.7 | 1721.7 | 1811.7 | 1936.3 | 2017.1 | 2109.4 | 2107.1 | 2109.4 | 2347.1 | 2208.7 |
| 55° | 1719.4 | 1721.7 | 1774.8 | 1878.6 | 2047.1 | 2194.8 | 2321.7 | 2335.6 | 2296.4 | 2522.5 | 2391.0 |
| 57.5° | 1830.2 | 1839.4 | 1885.6 | 1964.0 | 2134.8 | 2365.6 | 2559.5 | 2587.2 | 2481.0 | 2665.6 | 2557.2 |
| 60° | 1934.0 | 1940.9 | 2012.5 | 2102.5 | 2287.1 | 2580.2 | 2799.5 | 2831.8 | 2716.4 | 2841.0 | 2730.2 |
| 62.5° | 1816.3 | 1850.9 | 1977.9 | 2183.3 | 2554.8 | 2905.6 | 3104.1 | 3124.9 | 2944.9 | 3018.7 | 2914.9 |
| 65° | 1454.0 | 1477.1 | 1659.4 | 1991.7 | 2573.3 | 3496.5 | 3574.9 | 3519.5 | 3258.8 | 3247.2 | 3194.1 |
| 67.5° | 810.1 | 828.5 | 953.2 | 1301.7 | 2167.1 | 3718.0 | 4588.1 | 4181.9 | 3745.7 | 3591.1 | 3572.6 |
| 70° | 639.3 | 643.9 | 660.1 | 731.6 | 1202.4 | 3277.2 | 5386.6 | 5405.1 | 4541.9 | 4064.2 | 3653.4 |
| 72.5° | 519.3 | 517.0 | 565.4 | 627.7 | 710.8 | 1966.3 | 5135.1 | 5845.9 | 5151.2 | 3939.6 | 3182.6 |
| 75° | 397.0 | 403.9 | 466.2 | 556.2 | 650.8 | 925.5 | 3831.1 | 4809.7 | 4825.8 | 3671.9 | 2684.1 |
| 77.5° | 302.3 | 304.6 | 373.9 | 491.6 | 637.0 | 653.1 | 2499.5 | 3584.2 | 3600.3 | 2843.3 | 1479.4 |
| 80° | 226.2 | 226.2 | 283.9 | 415.4 | 620.8 | 602.4 | 1539.4 | 2485.6 | 2250.2 | 999.3 | 323.1 |
| 82.5° | 129.2 | 138.5 | 189.2 | 316.2 | 563.1 | 579.3 | 867.8 | 1424.0 | 950.9 | 272.3 | 150.0 |
| 85° | 69.2 | 71.5 | 115.4 | 212.3 | 463.9 | 553.9 | 662.4 | 708.5 | 378.5 | 145.4 | 69.2 |
| 87.5° | 25.4 | 25.4 | 53.1 | 108.5 | 293.1 | 410.8 | 526.2 | 452.3 | 216.9 | 66.9 | 34.6 |
| 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° | 1726.3 | 1726.3 | 1726.3 | 1726.3 | 1726.3 | 1726.3 | 1726.3 | 1726.3 | 1726.3 | 1726.3 | 1726.3 |
| 2.5° | 1724.0 | 1714.8 | 1707.8 | 1714.8 | 1689.4 | 1677.8 | 1691.7 | 1684.8 | 1670.9 | 1664.0 | 1659.4 |
| 5° | 1689.4 | 1677.8 | 1666.3 | 1659.4 | 1631.7 | 1604.0 | 1590.1 | 1562.4 | 1539.4 | 1546.3 | 1532.4 |
| 7.5° | 1652.5 | 1640.9 | 1606.3 | 1574.0 | 1518.6 | 1463.2 | 1437.8 | 1398.6 | 1384.7 | 1373.2 | 1366.3 |
| 10° | 1606.3 | 1585.5 | 1532.4 | 1467.8 | 1387.0 | 1324.7 | 1260.1 | 1214.0 | 1165.5 | 1144.7 | 1151.6 |
| 12.5° | 1548.6 | 1537.1 | 1454.0 | 1354.7 | 1241.7 | 1137.8 | 1061.6 | 987.8 | 923.2 | 888.5 | 879.3 |
| 15° | 1523.2 | 1488.6 | 1368.6 | 1237.0 | 1093.9 | 964.7 | 851.6 | 722.4 | 646.2 | 609.3 | 609.3 |
| 17.5° | 1495.5 | 1430.9 | 1287.8 | 1107.8 | 943.9 | 777.8 | 618.5 | 500.8 | 440.8 | 420.0 | 420.0 |
| 20° | 1451.7 | 1380.1 | 1193.2 | 985.5 | 787.0 | 586.2 | 443.1 | 378.5 | 360.0 | 346.2 | 348.5 |
| 22.5° | 1419.4 | 1331.7 | 1105.5 | 865.5 | 623.1 | 436.2 | 348.5 | 327.7 | 320.8 | 316.2 | 318.5 |
| 25° | 1382.4 | 1274.0 | 1013.2 | 736.2 | 489.3 | 343.9 | 302.3 | 293.1 | 297.7 | 300.0 | 300.0 |
| 27.5° | 1352.4 | 1225.5 | 918.5 | 597.7 | 369.3 | 290.8 | 272.3 | 270.0 | 279.3 | 283.9 | 286.2 |
| 30° | 1331.7 | 1181.6 | 826.2 | 470.8 | 295.4 | 258.5 | 249.3 | 249.3 | 260.8 | 265.4 | 267.7 |
| 32.5° | 1310.9 | 1144.7 | 727.0 | 360.0 | 251.6 | 230.8 | 228.5 | 230.8 | 237.7 | 237.7 | 240.0 |
| 35° | 1317.8 | 1110.1 | 632.4 | 290.8 | 226.2 | 212.3 | 212.3 | 212.3 | 214.6 | 216.9 | 216.9 |
| 37.5° | 1331.7 | 1100.9 | 530.8 | 244.6 | 207.7 | 198.5 | 198.5 | 196.2 | 198.5 | 196.2 | 198.5 |
| 40° | 1345.5 | 1087.0 | 438.5 | 216.9 | 196.2 | 189.2 | 186.9 | 182.3 | 180.0 | 180.0 | 182.3 |
| 42.5° | 1403.2 | 1105.5 | 360.0 | 198.5 | 186.9 | 182.3 | 175.4 | 170.8 | 168.5 | 168.5 | 168.5 |
| 45° | 1477.1 | 1140.1 | 297.7 | 189.2 | 180.0 | 168.5 | 163.9 | 161.6 | 156.9 | 159.2 | 161.6 |
| 47.5° | 1587.8 | 1193.2 | 260.8 | 182.3 | 173.1 | 159.2 | 154.6 | 150.0 | 150.0 | 154.6 | 154.6 |
| 50° | 1733.2 | 1280.9 | 237.7 | 175.4 | 166.2 | 152.3 | 145.4 | 143.1 | 143.1 | 150.0 | 150.0 |
| 52.5° | 1890.2 | 1382.4 | 228.5 | 173.1 | 159.2 | 145.4 | 138.5 | 136.2 | 136.2 | 145.4 | 145.4 |
| 55° | 2047.1 | 1507.1 | 235.4 | 173.1 | 154.6 | 138.5 | 131.6 | 126.9 | 129.2 | 136.2 | 136.2 |
| 57.5° | 2220.2 | 1640.9 | 270.0 | 173.1 | 150.0 | 136.2 | 126.9 | 120.0 | 122.3 | 124.6 | 124.6 |
| 60° | 2409.4 | 1816.3 | 330.0 | 173.1 | 147.7 | 131.6 | 120.0 | 110.8 | 110.8 | 113.1 | 113.1 |
| 62.5° | 2601.0 | 1989.4 | 415.4 | 175.4 | 150.0 | 129.2 | 110.8 | 101.5 | 99.2 | 101.5 | 101.5 |
| 65° | 2852.6 | 2266.4 | 500.8 | 175.4 | 156.9 | 124.6 | 103.9 | 92.3 | 90.0 | 90.0 | 92.3 |
| 67.5° | 3205.7 | 2464.8 | 387.7 | 168.5 | 161.6 | 124.6 | 96.9 | 85.4 | 80.8 | 80.8 | 80.8 |
| 70° | 3018.7 | 2079.4 | 246.9 | 156.9 | 154.6 | 129.2 | 92.3 | 78.5 | 73.9 | 71.5 | 71.5 |
| 72.5° | 2584.8 | 1664.0 | 198.5 | 147.7 | 143.1 | 126.9 | 87.7 | 73.9 | 66.9 | 64.6 | 64.6 |
| 75° | 2072.5 | 1313.2 | 173.1 | 133.9 | 124.6 | 106.2 | 80.8 | 66.9 | 62.3 | 57.7 | 57.7 |
| 77.5° | 1015.5 | 549.3 | 131.6 | 117.7 | 106.2 | 80.8 | 71.5 | 62.3 | 55.4 | 50.8 | 50.8 |
| 80° | 253.9 | 191.6 | 96.9 | 92.3 | 78.5 | 62.3 | 57.7 | 53.1 | 48.5 | 43.9 | 43.9 |
| 82.5° | 136.2 | 113.1 | 69.2 | 62.3 | 53.1 | 43.9 | 43.9 | 41.5 | 39.2 | 34.6 | 32.3 |
| 85° | 69.2 | 66.9 | 46.2 | 41.5 | 34.6 | 27.7 | 30.0 | 30.0 | 27.7 | 20.8 | 20.8 |
| 87.5° | 36.9 | 36.9 | 23.1 | 18.5 | 16.2 | 13.8 | 13.8 | 13.8 | 11.5 | 9.2 | 9.2 |
| 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)