

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: STREETWORKS

Report Number: P483846

Luminaire Tested: **IFLD-S-SA2B-722-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483846  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-722-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

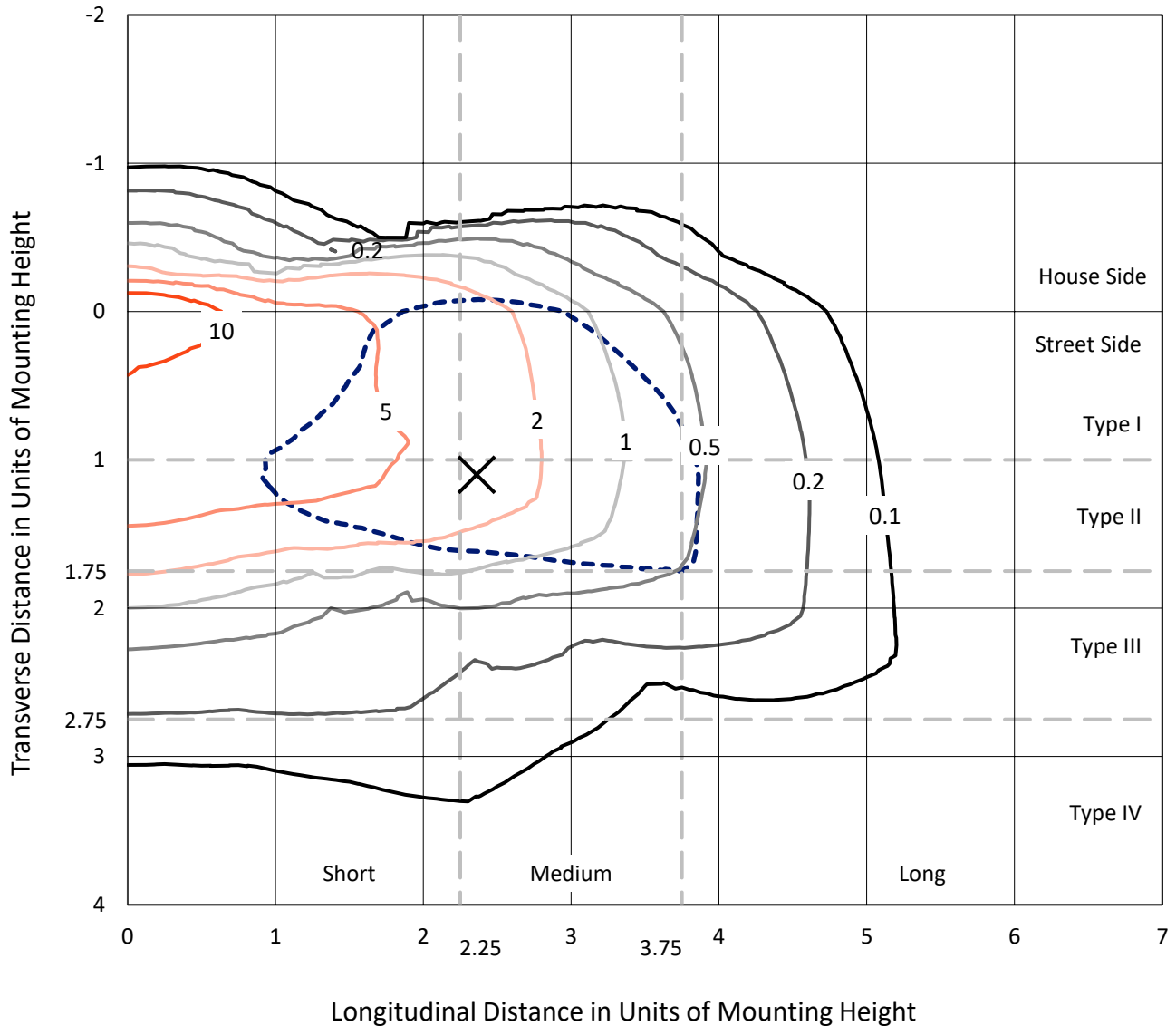
Lumens per Lamp: N/A  
Luminaire Lumens: 6922.1 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

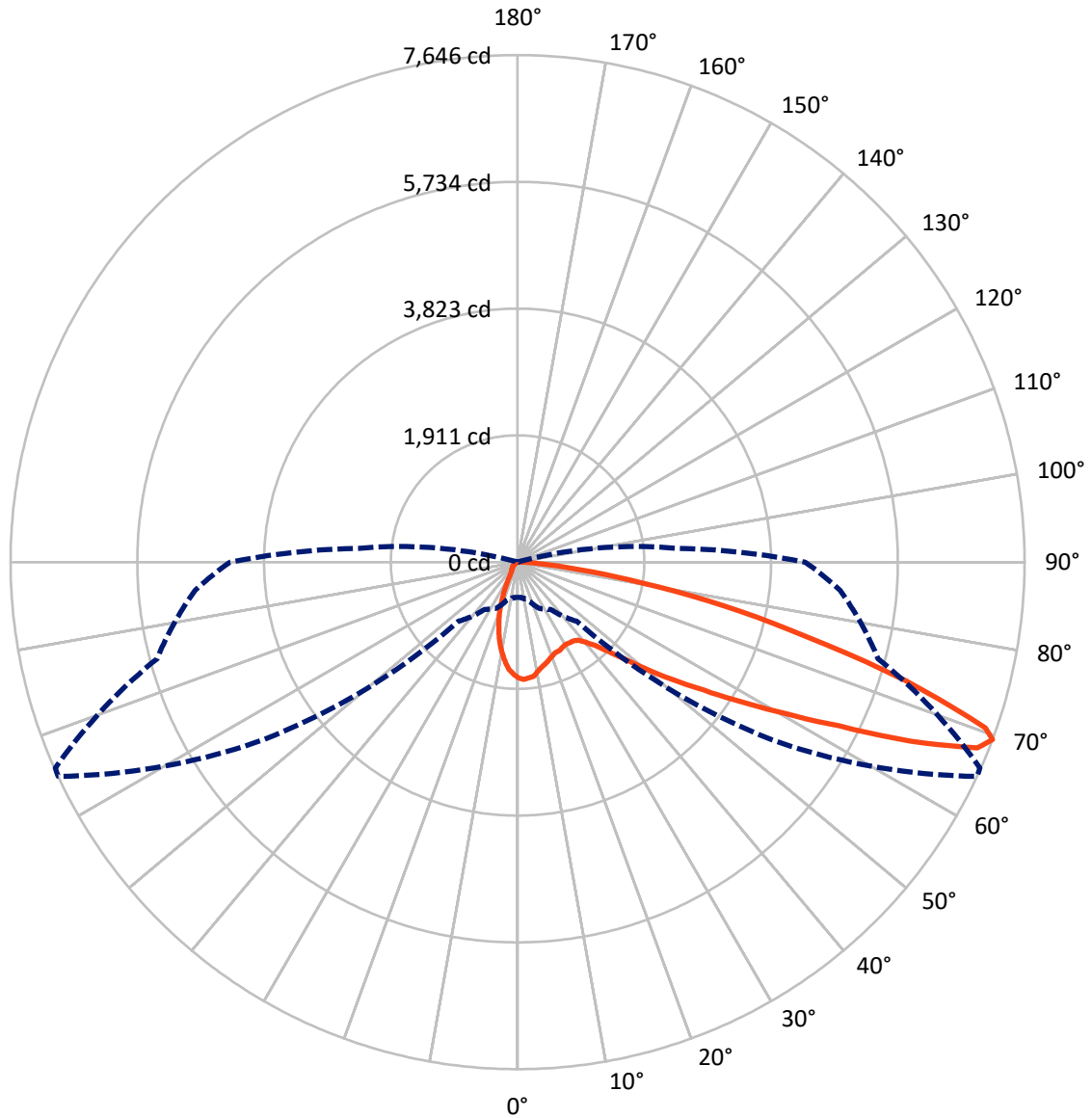
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 839.7    | 0.0    | 839.7  |
|                    | % Fixture | 12.1     | 0.0    | 12.1   |
| <b>Street Side</b> | Lumens    | 6082.4   | 0.0    | 6082.4 |
|                    | % Fixture | 87.9     | 0.0    | 87.9   |
| <b>Total</b>       | Lumens    | 6922.1   | 0.0    | 6922.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 142.8  | 2.1       |
| 10°-20°   | 312.5  | 4.5       |
| 20°-30°   | 435.0  | 6.3       |
| 30°-40°   | 616.5  | 8.9       |
| 40°-50°   | 971.6  | 14.0      |
| 50°-60°   | 1576.5 | 22.8      |
| 60°-70°   | 1760.7 | 25.4      |
| 70°-80°   | 991.5  | 14.3      |
| 80°-90°   | 115.0  | 1.7       |
| 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°    | 6922.1 | 100.0     |
| 0°-180°   | 6922.1 | 100.0     |

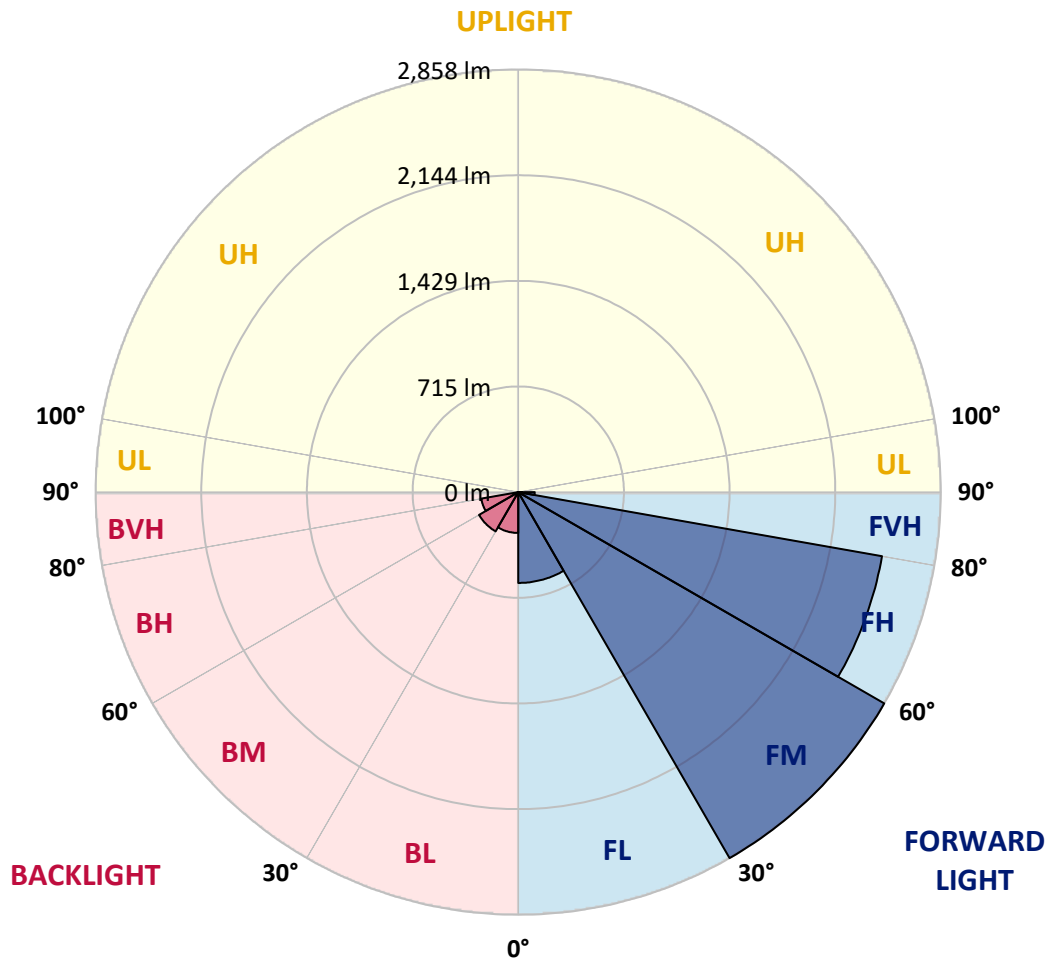


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 614.3  | 8.9       |                         |      |         |
| FM (30°-60°)   | 2858.2 | 41.3      |                         |      |         |
| FH (60°-80°)   | 2498.1 | 36.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 111.9  | 1.6       |                         |      | G2/225  |
| BL (0°-30°)    | 276.1  | 4.0       | B1/500                  |      |         |
| BM (30°-60°)   | 306.4  | 4.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 254.1  | 3.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.2    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 |
| 2.5°  | 1680.8 | 1693.9 | 1697.6 | 1710.7 | 1717.2 | 1745.2 | 1761.1 | 1770.4 | 1765.8 | 1776.0 | 1777.0 |
| 5°    | 1561.3 | 1553.8 | 1573.4 | 1587.4 | 1617.3 | 1665.9 | 1715.4 | 1753.6 | 1771.4 | 1788.2 | 1785.4 |
| 7.5°  | 1433.4 | 1429.6 | 1449.2 | 1481.0 | 1508.1 | 1566.9 | 1646.3 | 1740.6 | 1736.8 | 1777.9 | 1790.1 |
| 10°   | 1345.6 | 1349.3 | 1355.8 | 1387.6 | 1427.7 | 1487.5 | 1586.5 | 1674.3 | 1693.9 | 1780.7 | 1805.0 |
| 12.5° | 1265.3 | 1271.8 | 1283.9 | 1316.6 | 1363.3 | 1424.9 | 1521.1 | 1623.8 | 1653.7 | 1764.8 | 1813.4 |
| 15°   | 1239.1 | 1224.2 | 1248.5 | 1272.7 | 1321.3 | 1376.4 | 1457.6 | 1585.6 | 1598.6 | 1746.2 | 1827.4 |
| 17.5° | 1217.6 | 1208.3 | 1219.5 | 1239.1 | 1290.5 | 1335.3 | 1411.9 | 1544.5 | 1568.7 | 1738.7 | 1825.5 |
| 20°   | 1224.2 | 1215.8 | 1220.4 | 1235.4 | 1258.7 | 1300.8 | 1371.7 | 1505.3 | 1531.4 | 1704.1 | 1822.7 |
| 22.5° | 1242.9 | 1249.4 | 1241.0 | 1244.7 | 1252.2 | 1273.7 | 1350.2 | 1477.2 | 1499.6 | 1697.6 | 1838.6 |
| 25°   | 1326.9 | 1315.7 | 1304.5 | 1299.8 | 1255.9 | 1265.3 | 1343.7 | 1475.4 | 1491.2 | 1674.3 | 1825.5 |
| 27.5° | 1414.7 | 1405.3 | 1400.7 | 1373.6 | 1313.8 | 1285.8 | 1344.6 | 1449.2 | 1470.7 | 1664.9 | 1809.7 |
| 30°   | 1521.1 | 1533.3 | 1514.6 | 1481.9 | 1398.8 | 1329.7 | 1354.9 | 1436.2 | 1466.0 | 1629.4 | 1799.4 |
| 32.5° | 1633.2 | 1639.7 | 1649.1 | 1624.8 | 1517.4 | 1396.0 | 1385.7 | 1448.3 | 1450.2 | 1629.4 | 1776.0 |
| 35°   | 1760.2 | 1750.8 | 1775.1 | 1777.0 | 1682.7 | 1513.7 | 1444.6 | 1456.7 | 1476.3 | 1622.0 | 1767.6 |
| 37.5° | 1869.4 | 1885.3 | 1913.3 | 1958.1 | 1861.0 | 1679.9 | 1536.1 | 1495.9 | 1504.3 | 1656.5 | 1774.2 |
| 40°   | 1988.9 | 2004.8 | 2068.3 | 2113.1 | 2058.0 | 1866.6 | 1675.2 | 1587.4 | 1594.0 | 1707.9 | 1807.8 |
| 42.5° | 2120.6 | 2151.4 | 2227.1 | 2305.5 | 2290.6 | 2103.8 | 1854.5 | 1721.9 | 1719.1 | 1835.8 | 1876.9 |
| 45°   | 2299.0 | 2340.0 | 2422.2 | 2512.8 | 2525.9 | 2375.5 | 2093.5 | 1922.7 | 1932.0 | 2003.0 | 2019.8 |
| 47.5° | 2547.3 | 2545.5 | 2625.8 | 2726.6 | 2802.3 | 2657.5 | 2379.3 | 2192.5 | 2191.6 | 2267.2 | 2231.7 |
| 50°   | 2787.3 | 2788.3 | 2809.7 | 2926.5 | 3122.6 | 3048.8 | 2733.2 | 2551.1 | 2540.8 | 2578.2 | 2521.2 |
| 52.5° | 2898.4 | 2885.4 | 2869.5 | 3010.5 | 3369.1 | 3541.8 | 3181.4 | 2957.3 | 2948.9 | 2926.5 | 2911.5 |
| 55°   | 2781.7 | 2786.4 | 2785.5 | 2932.1 | 3498.9 | 4061.9 | 3756.6 | 3404.6 | 3390.6 | 3320.5 | 3341.1 |
| 57.5° | 2407.3 | 2392.3 | 2425.0 | 2653.8 | 3350.4 | 4416.8 | 4579.3 | 3968.6 | 3932.1 | 3699.6 | 3652.9 |
| 60°   | 1791.9 | 1796.6 | 1823.7 | 2093.5 | 2981.6 | 4491.5 | 5366.4 | 4630.6 | 4473.7 | 3966.7 | 3902.3 |
| 62.5° | 1251.3 | 1241.9 | 1252.2 | 1403.5 | 2131.8 | 4192.7 | 5898.7 | 5435.5 | 5284.3 | 4270.2 | 4232.8 |
| 65°   | 895.5  | 883.4  | 924.4  | 1016.9 | 1280.2 | 3205.7 | 5974.3 | 6507.5 | 6372.1 | 4754.8 | 4665.2 |
| 67.5° | 644.3  | 642.4  | 690.1  | 858.1  | 909.5  | 1846.1 | 5414.0 | 7478.6 | 7396.5 | 5330.0 | 4928.5 |
| 69°   | 533.2  | 534.1  | 579.9  | 768.5  | 868.4  | 1260.6 | 4658.6 | 7645.8 | 7630.8 | 5627.0 | 4879.0 |
| 70°   | 465.0  | 468.8  | 522.0  | 715.3  | 851.6  | 1036.5 | 4016.2 | 7481.4 | 7466.5 | 5684.8 | 4715.6 |
| 72.5° | 286.7  | 289.5  | 359.5  | 573.3  | 809.6  | 846.0  | 2401.7 | 6120.9 | 6172.3 | 5419.7 | 4062.9 |
| 75°   | 137.3  | 138.2  | 188.6  | 414.6  | 780.6  | 802.1  | 1286.7 | 4516.7 | 4625.0 | 4375.7 | 3174.8 |
| 77.5° | 72.8   | 72.8   | 90.6   | 220.4  | 632.2  | 754.5  | 763.8  | 3186.1 | 3275.7 | 2766.8 | 1805.0 |
| 80°   | 36.4   | 37.4   | 55.1   | 114.9  | 392.2  | 739.6  | 596.7  | 1900.2 | 1948.8 | 1128.9 | 562.1  |
| 82.5° | 14.0   | 14.9   | 26.1   | 69.1   | 203.6  | 624.7  | 523.8  | 934.7  | 922.6  | 264.3  | 137.3  |
| 85°   | 1.9    | 1.9    | 9.3    | 41.1   | 86.8   | 275.5  | 432.3  | 390.3  | 377.2  | 57.9   | 66.3   |
| 87.5° | 0.0    | 0.0    | 1.9    | 12.1   | 26.1   | 80.3   | 167.1  | 107.4  | 119.5  | 15.9   | 32.7   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 | 1745.2 |
| 2.5°  | 1772.3 | 1752.7 | 1722.8 | 1693.9 | 1663.1 | 1625.7 | 1584.6 | 1569.7 | 1543.5 | 1541.7 | 1556.6 |
| 5°    | 1770.4 | 1738.7 | 1686.4 | 1624.8 | 1537.0 | 1470.7 | 1398.8 | 1346.5 | 1306.4 | 1280.2 | 1286.7 |
| 7.5°  | 1779.8 | 1741.5 | 1650.9 | 1518.3 | 1405.3 | 1273.7 | 1162.6 | 1086.0 | 1016.0 | 981.4  | 977.7  |
| 10°   | 1764.8 | 1713.5 | 1580.9 | 1395.1 | 1228.9 | 1044.9 | 882.4  | 779.7  | 675.1  | 636.8  | 638.7  |
| 12.5° | 1773.2 | 1701.3 | 1505.3 | 1268.1 | 1039.3 | 800.2  | 606.0  | 466.0  | 367.9  | 336.2  | 332.4  |
| 15°   | 1778.8 | 1675.2 | 1432.4 | 1115.9 | 829.2  | 545.3  | 351.1  | 264.3  | 233.4  | 227.8  | 226.9  |
| 17.5° | 1757.4 | 1643.5 | 1329.7 | 965.5  | 614.4  | 331.5  | 233.4  | 215.7  | 210.1  | 206.4  | 204.5  |
| 20°   | 1756.4 | 1624.8 | 1241.0 | 811.5  | 409.9  | 226.0  | 201.7  | 195.2  | 186.8  | 184.0  | 184.0  |
| 22.5° | 1740.6 | 1585.6 | 1134.5 | 642.4  | 261.5  | 194.2  | 181.2  | 170.9  | 161.5  | 157.8  | 156.9  |
| 25°   | 1735.9 | 1539.8 | 1034.6 | 482.8  | 198.9  | 173.7  | 160.6  | 145.7  | 134.5  | 128.9  | 126.1  |
| 27.5° | 1722.8 | 1500.6 | 933.8  | 339.9  | 173.7  | 155.0  | 138.2  | 122.3  | 109.3  | 100.8  | 99.9   |
| 30°   | 1676.1 | 1459.5 | 821.7  | 235.3  | 157.8  | 137.3  | 118.6  | 99.9   | 86.8   | 81.2   | 79.4   |
| 32.5° | 1656.5 | 1421.2 | 699.4  | 181.2  | 143.8  | 121.4  | 99.9   | 83.1   | 72.8   | 67.2   | 66.3   |
| 35°   | 1633.2 | 1365.2 | 580.8  | 157.8  | 130.7  | 105.5  | 84.0   | 70.0   | 61.6   | 57.0   | 57.0   |
| 37.5° | 1636.0 | 1320.4 | 469.7  | 142.9  | 116.7  | 90.6   | 71.9   | 59.8   | 52.3   | 47.6   | 47.6   |
| 40°   | 1627.6 | 1284.9 | 365.1  | 129.8  | 103.6  | 77.5   | 60.7   | 50.4   | 43.9   | 39.2   | 38.3   |
| 42.5° | 1665.9 | 1275.5 | 275.5  | 118.6  | 90.6   | 66.3   | 52.3   | 43.0   | 36.4   | 30.8   | 30.8   |
| 45°   | 1730.3 | 1290.5 | 214.8  | 108.3  | 77.5   | 57.0   | 44.8   | 35.5   | 28.9   | 25.2   | 24.3   |
| 47.5° | 1902.1 | 1349.3 | 168.1  | 99.9   | 66.3   | 49.5   | 37.4   | 28.9   | 23.3   | 19.6   | 18.7   |
| 50°   | 2151.4 | 1481.0 | 142.9  | 87.8   | 56.0   | 42.0   | 30.8   | 22.4   | 18.7   | 14.9   | 14.0   |
| 52.5° | 2506.3 | 1702.3 | 129.8  | 77.5   | 46.7   | 34.5   | 24.3   | 17.7   | 14.0   | 11.2   | 10.3   |
| 55°   | 2892.8 | 1978.7 | 117.7  | 65.4   | 39.2   | 28.0   | 19.6   | 14.0   | 10.3   | 7.5    | 6.5    |
| 57.5° | 3194.5 | 2217.7 | 107.4  | 54.2   | 31.7   | 22.4   | 14.9   | 10.3   | 7.5    | 4.7    | 3.7    |
| 60°   | 3524.1 | 2385.8 | 94.3   | 43.0   | 26.1   | 16.8   | 11.2   | 7.5    | 5.6    | 2.8    | 2.8    |
| 62.5° | 3864.0 | 2582.8 | 77.5   | 33.6   | 20.5   | 13.1   | 8.4    | 5.6    | 3.7    | 0.9    | 0.9    |
| 65°   | 4336.5 | 2736.9 | 59.8   | 26.1   | 15.9   | 9.3    | 6.5    | 4.7    | 1.9    | 0.0    | 0.0    |
| 67.5° | 4470.0 | 2661.3 | 43.9   | 20.5   | 11.2   | 6.5    | 4.7    | 2.8    | 0.9    | 0.0    | 0.0    |
| 69°   | 4336.5 | 2397.0 | 38.3   | 17.7   | 9.3    | 5.6    | 3.7    | 1.9    | 0.9    | 0.0    | 0.0    |
| 70°   | 4092.8 | 2191.6 | 33.6   | 14.9   | 8.4    | 5.6    | 2.8    | 1.9    | 0.9    | 0.0    | 0.0    |
| 72.5° | 3423.2 | 1680.8 | 26.1   | 11.2   | 6.5    | 4.7    | 2.8    | 1.9    | 0.0    | 0.0    | 0.0    |
| 75°   | 2510.9 | 1038.4 | 19.6   | 8.4    | 5.6    | 3.7    | 2.8    | 1.9    | 0.0    | 0.0    | 0.0    |
| 77.5° | 1345.6 | 379.1  | 14.0   | 5.6    | 3.7    | 2.8    | 2.8    | 1.9    | 0.0    | 0.0    | 0.0    |
| 80°   | 368.8  | 112.1  | 10.3   | 3.7    | 2.8    | 1.9    | 1.9    | 0.9    | 0.0    | 0.0    | 0.0    |
| 82.5° | 100.8  | 28.9   | 6.5    | 3.7    | 2.8    | 1.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 54.2   | 11.2   | 3.7    | 2.8    | 1.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 28.0   | 3.7    | 2.8    | 1.9    | 1.9    | 0.9    | 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)