

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: P319365

Luminaire Tested: **GAN-SA1C-740-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319365  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1C-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7254 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

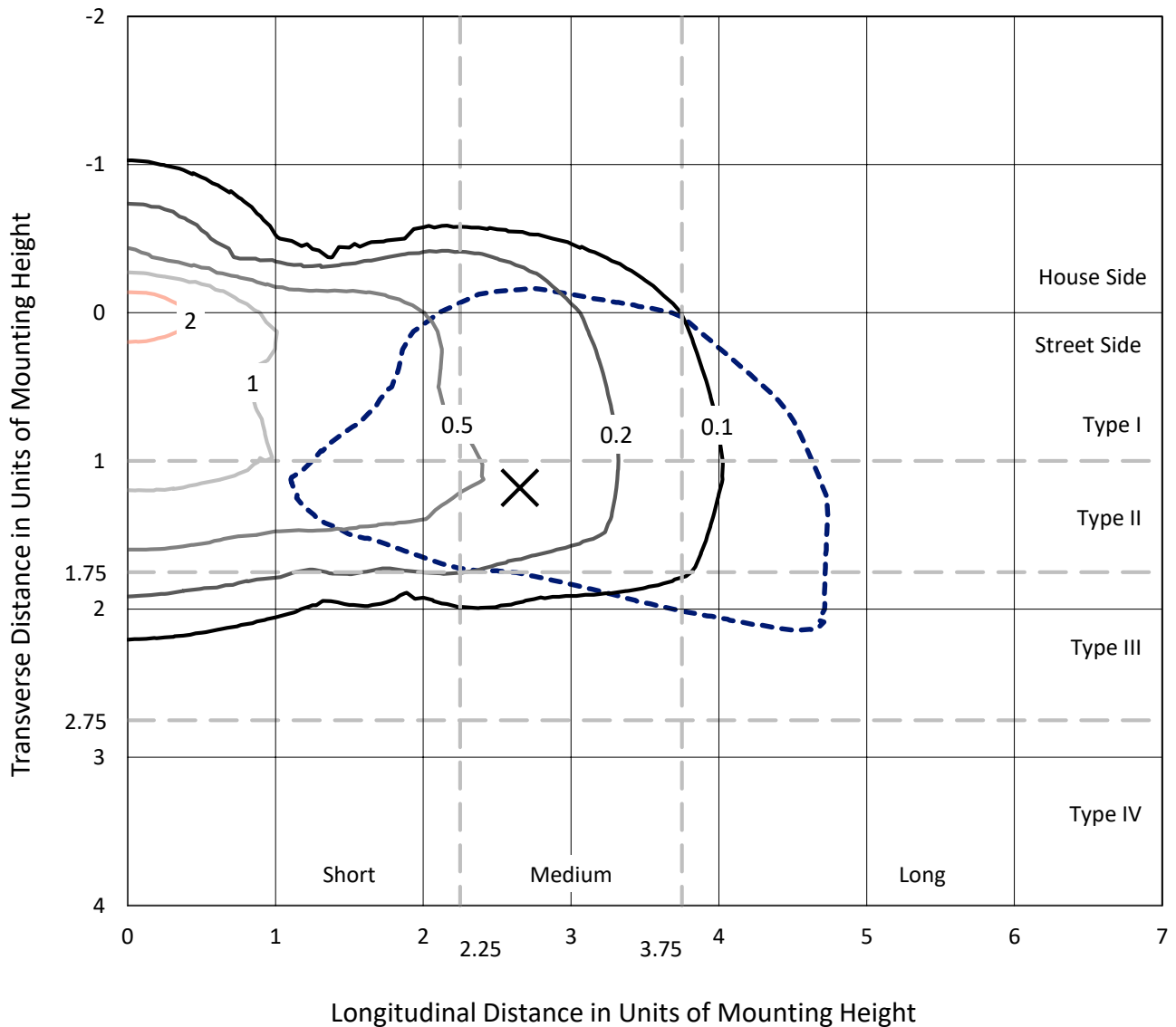
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

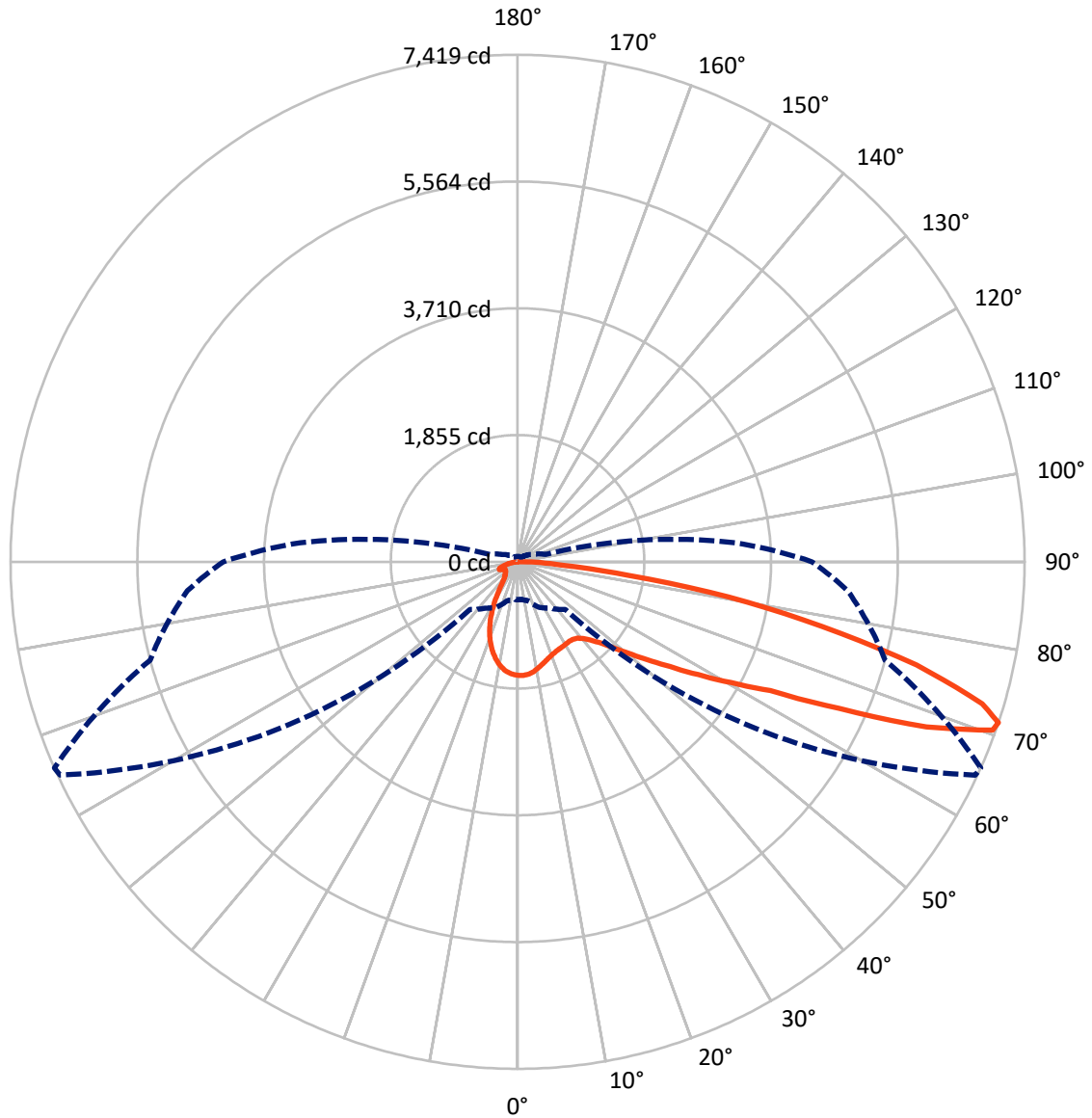
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Medium - N/A

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CATALOG NUMBER: GAN-SA1C-740-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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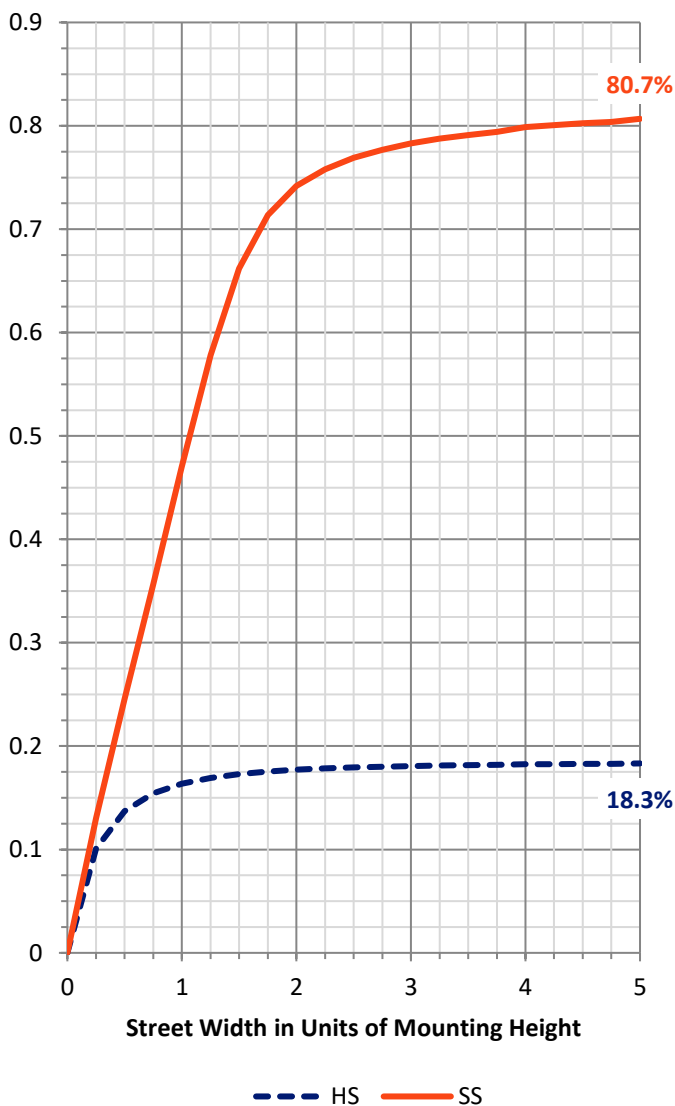
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1344.4   | 0.0    | 1344.4 |
|                    | % Fixture | 18.5     | 0.0    | 18.5   |
| <b>Street Side</b> | Lumens    | 5909.6   | 0.0    | 5909.6 |
|                    | % Fixture | 81.5     | 0.0    | 81.5   |
| <b>Total</b>       | Lumens    | 7254.0   | 0.0    | 7254.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 146.3  | 2.0       |
| 10°-20°   | 350.8  | 4.8       |
| 20°-30°   | 471.3  | 6.5       |
| 30°-40°   | 619.9  | 8.5       |
| 40°-50°   | 901.8  | 12.4      |
| 50°-60°   | 1408.7 | 19.4      |
| 60°-70°   | 1764.7 | 24.3      |
| 70°-80°   | 1346.1 | 18.6      |
| 80°-90°   | 244.4  | 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°    | 7254.0 | 100.0     |
| 0°-180°   | 7254.0 | 100.0     |

**Coefficient of Utilization**

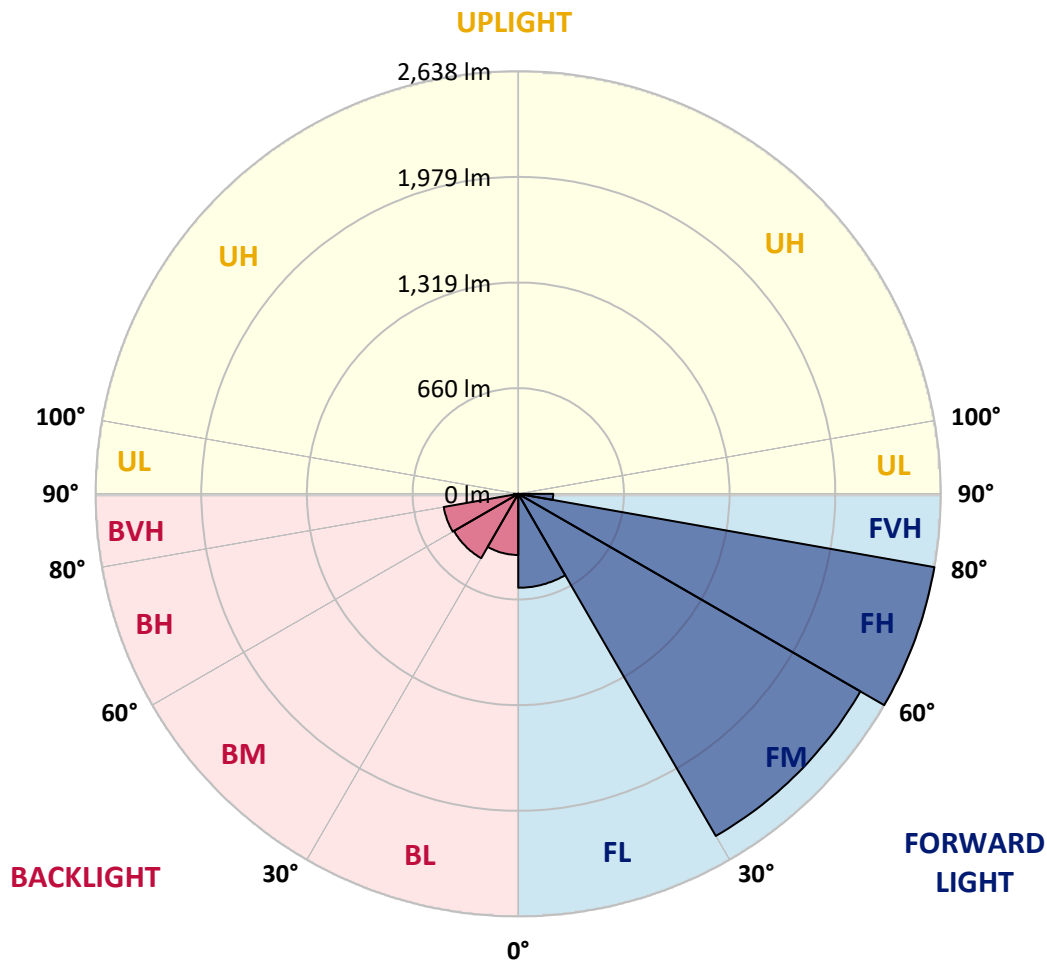


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 CATALOG NUMBER: GAN-SA1C-740-U-SL2

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 586.6  | 8.1       |                         |      |         |
| FM (30°-60°)   | 2466.7 | 34.0      |                         |      |         |
| FH (60°-80°)   | 2638.4 | 36.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 218.0  | 3.0       |                         |      | G2/225  |
| BL (0°-30°)    | 381.8  | 5.3       | B1/500                  |      |         |
| BM (30°-60°)   | 463.8  | 6.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 472.4  | 6.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 26.5   | 0.4       |                         |      | 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





REPORT NUMBER: P319365

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1661.8 | 1661.8 | 1661.8 | 1661.8 | 1661.8 | 1661.8 | 1661.8 | 1661.8 | 1661.8 | 1661.8 | 1661.8 |
| 2.5°  | 1630.9 | 1628.4 | 1636.0 | 1643.7 | 1646.7 | 1651.7 | 1659.2 | 1663.5 | 1663.3 | 1664.0 | 1661.5 |
| 5°    | 1522.7 | 1519.5 | 1534.5 | 1546.8 | 1570.3 | 1596.9 | 1629.2 | 1652.2 | 1652.7 | 1665.8 | 1669.3 |
| 7.5°  | 1420.3 | 1418.1 | 1435.3 | 1455.1 | 1482.4 | 1523.0 | 1575.3 | 1624.9 | 1627.9 | 1663.3 | 1675.5 |
| 10°   | 1338.2 | 1337.7 | 1354.4 | 1376.0 | 1407.8 | 1453.1 | 1513.2 | 1585.9 | 1590.4 | 1651.2 | 1676.5 |
| 12.5° | 1274.1 | 1275.1 | 1289.6 | 1314.1 | 1347.7 | 1395.0 | 1460.1 | 1542.0 | 1549.3 | 1632.2 | 1670.8 |
| 15°   | 1226.7 | 1230.7 | 1242.5 | 1267.3 | 1300.3 | 1348.4 | 1415.3 | 1501.5 | 1512.5 | 1610.9 | 1667.5 |
| 17.5° | 1199.7 | 1204.2 | 1212.4 | 1233.0 | 1264.0 | 1310.4 | 1373.7 | 1468.2 | 1478.2 | 1594.6 | 1667.8 |
| 20°   | 1191.7 | 1195.4 | 1200.2 | 1212.7 | 1239.0 | 1281.1 | 1340.9 | 1438.1 | 1448.9 | 1581.6 | 1670.3 |
| 22.5° | 1207.4 | 1210.2 | 1210.7 | 1209.7 | 1225.7 | 1260.0 | 1317.1 | 1416.1 | 1427.6 | 1573.1 | 1672.0 |
| 25°   | 1241.2 | 1245.0 | 1242.2 | 1233.0 | 1227.7 | 1248.8 | 1304.9 | 1401.5 | 1413.1 | 1566.8 | 1668.5 |
| 27.5° | 1292.1 | 1292.6 | 1290.3 | 1278.3 | 1253.5 | 1250.0 | 1301.1 | 1393.0 | 1404.0 | 1559.6 | 1661.3 |
| 30°   | 1361.2 | 1364.5 | 1360.5 | 1344.2 | 1303.6 | 1270.0 | 1305.6 | 1384.8 | 1394.8 | 1550.3 | 1649.5 |
| 32.5° | 1442.1 | 1450.1 | 1449.9 | 1432.8 | 1374.7 | 1314.9 | 1324.1 | 1379.7 | 1387.5 | 1540.5 | 1635.2 |
| 35°   | 1526.0 | 1537.0 | 1557.6 | 1550.3 | 1478.4 | 1385.8 | 1359.7 | 1387.8 | 1393.0 | 1539.3 | 1625.2 |
| 37.5° | 1613.2 | 1624.2 | 1666.5 | 1686.0 | 1601.9 | 1487.2 | 1415.8 | 1416.1 | 1418.6 | 1554.6 | 1624.4 |
| 40°   | 1704.3 | 1716.1 | 1779.7 | 1830.6 | 1761.9 | 1615.7 | 1506.2 | 1475.2 | 1472.4 | 1592.1 | 1639.2 |
| 42.5° | 1832.1 | 1842.6 | 1919.0 | 1983.8 | 1939.5 | 1780.2 | 1631.2 | 1566.3 | 1560.6 | 1665.8 | 1686.5 |
| 45°   | 1993.6 | 2002.6 | 2083.8 | 2153.1 | 2130.3 | 1968.1 | 1788.2 | 1691.8 | 1690.8 | 1788.5 | 1782.5 |
| 47.5° | 2185.7 | 2192.7 | 2265.6 | 2332.7 | 2341.0 | 2184.2 | 1985.6 | 1885.4 | 1869.1 | 1956.8 | 1931.0 |
| 50°   | 2385.8 | 2393.6 | 2443.2 | 2515.3 | 2576.7 | 2473.5 | 2239.5 | 2122.6 | 2100.8 | 2178.9 | 2141.4 |
| 52.5° | 2518.3 | 2528.6 | 2571.6 | 2663.1 | 2841.6 | 2790.5 | 2539.8 | 2410.1 | 2377.0 | 2448.2 | 2419.4 |
| 55°   | 2459.2 | 2482.2 | 2548.1 | 2694.6 | 3053.5 | 3274.9 | 2910.3 | 2745.5 | 2708.1 | 2767.2 | 2750.2 |
| 57.5° | 2190.5 | 2222.0 | 2311.9 | 2538.1 | 3083.3 | 3701.7 | 3470.3 | 3140.4 | 3114.1 | 3097.1 | 3104.9 |
| 60°   | 1699.3 | 1729.6 | 1841.1 | 2135.9 | 2875.7 | 4013.2 | 4313.0 | 3627.3 | 3589.2 | 3428.2 | 3435.2 |
| 62.5° | 1202.7 | 1187.4 | 1263.8 | 1479.4 | 2336.7 | 4049.8 | 5272.0 | 4278.5 | 4153.3 | 3777.8 | 3747.0 |
| 65°   | 917.2  | 913.6  | 948.0  | 1016.6 | 1415.3 | 3612.3 | 5843.3 | 5373.0 | 5177.3 | 4189.1 | 4116.4 |
| 67.5° | 753.6  | 747.3  | 781.2  | 881.1  | 911.4  | 2330.5 | 5855.8 | 6642.7 | 6450.6 | 4701.0 | 4543.7 |
| 70°   | 619.6  | 612.6  | 644.2  | 773.1  | 842.3  | 1181.9 | 4928.4 | 7386.3 | 7376.1 | 5349.2 | 4866.3 |
| 71°   | 555.5  | 550.5  | 588.3  | 731.6  | 827.5  | 985.0  | 4255.2 | 7388.3 | 7419.1 | 5568.6 | 4847.3 |
| 72.5° | 452.3  | 454.1  | 494.1  | 651.2  | 816.5  | 869.8  | 3127.4 | 7044.0 | 7109.1 | 5777.7 | 4674.2 |
| 75°   | 300.5  | 302.0  | 354.6  | 500.9  | 791.7  | 851.0  | 1718.9 | 5910.7 | 6030.4 | 5652.5 | 4265.2 |
| 77.5° | 201.9  | 201.4  | 237.2  | 343.6  | 689.7  | 851.0  | 1007.8 | 4420.7 | 4552.2 | 4497.6 | 3288.2 |
| 80°   | 139.0  | 138.0  | 163.3  | 237.2  | 522.2  | 861.3  | 779.2  | 3098.1 | 3137.9 | 2428.9 | 1336.4 |
| 82.5° | 85.2   | 85.9   | 106.7  | 167.6  | 355.4  | 775.1  | 735.6  | 1689.3 | 1646.0 | 681.2  | 333.9  |
| 85°   | 48.8   | 48.6   | 68.1   | 113.5  | 228.2  | 654.2  | 717.3  | 727.1  | 667.0  | 205.1  | 120.7  |
| 87.5° | 17.5   | 18.8   | 36.6   | 62.9   | 130.7  | 455.6  | 608.6  | 378.2  | 340.9  | 92.7   | 54.6   |
| 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°    | 1661.8 | 1661.8 | 1661.8 | 1661.8 | 1661.8 | 1661.8 | 1661.8 | 1661.8 | 1661.8 | 1661.8 | 1661.8 |
| 2.5°  | 1659.7 | 1661.3 | 1659.5 | 1649.5 | 1641.0 | 1627.2 | 1619.4 | 1608.7 | 1605.4 | 1603.9 | 1607.9 |
| 5°    | 1666.0 | 1666.5 | 1651.7 | 1625.4 | 1595.9 | 1561.1 | 1536.0 | 1505.2 | 1490.7 | 1484.4 | 1488.4 |
| 7.5°  | 1671.8 | 1669.5 | 1637.2 | 1586.9 | 1532.3 | 1471.7 | 1417.8 | 1368.5 | 1339.7 | 1327.9 | 1328.9 |
| 10°   | 1672.5 | 1663.0 | 1611.2 | 1533.3 | 1448.6 | 1359.7 | 1277.1 | 1200.9 | 1152.8 | 1121.5 | 1131.0 |
| 12.5° | 1664.8 | 1648.7 | 1572.8 | 1463.9 | 1346.4 | 1225.2 | 1113.5 | 999.3  | 930.7  | 898.9  | 899.9  |
| 15°   | 1658.7 | 1629.7 | 1525.8 | 1382.2 | 1224.5 | 1063.9 | 911.4  | 777.2  | 704.0  | 671.5  | 656.2  |
| 17.5° | 1653.7 | 1609.2 | 1471.2 | 1290.3 | 1080.5 | 876.8  | 693.5  | 573.8  | 533.7  | 524.2  | 520.2  |
| 20°   | 1646.7 | 1587.4 | 1410.3 | 1183.9 | 916.4  | 667.5  | 506.4  | 447.3  | 447.6  | 458.6  | 460.1  |
| 22.5° | 1637.0 | 1562.6 | 1345.4 | 1064.4 | 740.3  | 486.1  | 397.0  | 379.9  | 397.2  | 418.3  | 422.0  |
| 25°   | 1622.4 | 1533.3 | 1273.3 | 932.4  | 564.5  | 373.7  | 339.1  | 338.4  | 359.4  | 381.4  | 384.7  |
| 27.5° | 1601.9 | 1494.9 | 1193.2 | 790.7  | 416.0  | 317.6  | 303.8  | 309.1  | 324.6  | 340.6  | 341.9  |
| 30°   | 1574.3 | 1450.4 | 1104.7 | 641.2  | 326.1  | 282.8  | 281.3  | 286.0  | 295.5  | 306.8  | 307.8  |
| 32.5° | 1544.0 | 1405.0 | 1010.3 | 496.4  | 279.3  | 264.0  | 265.5  | 267.7  | 272.2  | 276.7  | 277.8  |
| 35°   | 1516.5 | 1358.7 | 913.6  | 377.2  | 257.0  | 251.7  | 250.7  | 250.2  | 250.7  | 249.2  | 249.5  |
| 37.5° | 1498.7 | 1320.4 | 813.0  | 300.3  | 244.2  | 240.9  | 237.9  | 234.2  | 229.9  | 227.4  | 227.9  |
| 40°   | 1492.2 | 1291.8 | 711.0  | 259.5  | 233.7  | 231.4  | 225.7  | 217.6  | 212.6  | 211.1  | 211.1  |
| 42.5° | 1509.7 | 1277.1 | 612.6  | 238.9  | 224.9  | 221.1  | 211.6  | 202.4  | 198.6  | 198.4  | 198.1  |
| 45°   | 1563.3 | 1283.1 | 518.9  | 227.7  | 216.9  | 209.6  | 197.1  | 189.3  | 186.8  | 187.3  | 187.1  |
| 47.5° | 1659.5 | 1320.9 | 438.8  | 220.1  | 208.9  | 199.4  | 185.3  | 179.1  | 176.1  | 176.1  | 176.3  |
| 50°   | 1823.0 | 1409.3 | 374.9  | 213.9  | 202.1  | 189.8  | 176.8  | 169.1  | 165.0  | 164.8  | 164.8  |
| 52.5° | 2061.2 | 1567.6 | 335.1  | 208.6  | 194.6  | 181.3  | 168.3  | 158.5  | 153.8  | 152.8  | 152.3  |
| 55°   | 2359.8 | 1794.5 | 324.1  | 205.1  | 184.6  | 172.1  | 158.0  | 148.3  | 143.0  | 140.8  | 140.5  |
| 57.5° | 2693.6 | 2070.5 | 345.9  | 200.9  | 174.3  | 161.0  | 146.8  | 137.5  | 132.0  | 129.2  | 129.0  |
| 60°   | 3031.5 | 2371.8 | 434.8  | 194.9  | 165.8  | 149.0  | 135.2  | 126.7  | 121.2  | 118.2  | 117.7  |
| 62.5° | 3369.8 | 2689.4 | 616.4  | 194.4  | 159.8  | 137.5  | 123.5  | 116.2  | 111.0  | 107.7  | 106.9  |
| 65°   | 3751.5 | 3037.0 | 822.7  | 207.6  | 157.8  | 127.0  | 111.5  | 105.7  | 101.2  | 98.2   | 97.9   |
| 67.5° | 4189.8 | 3429.4 | 803.0  | 234.9  | 164.5  | 117.5  | 100.2  | 95.7   | 92.4   | 89.9   | 89.7   |
| 70°   | 4395.4 | 3368.1 | 499.2  | 254.2  | 174.1  | 108.2  | 89.4   | 86.2   | 83.7   | 81.9   | 81.1   |
| 71°   | 4309.3 | 3198.0 | 418.5  | 252.0  | 173.1  | 104.2  | 85.2   | 82.6   | 80.1   | 78.6   | 77.9   |
| 72.5° | 4074.4 | 2916.5 | 349.1  | 234.4  | 161.8  | 96.9   | 79.6   | 77.1   | 74.9   | 73.1   | 72.6   |
| 75°   | 3656.1 | 2604.7 | 279.5  | 187.3  | 129.0  | 81.9   | 69.9   | 67.1   | 65.4   | 64.4   | 63.4   |
| 77.5° | 2687.6 | 1858.9 | 216.1  | 148.0  | 94.9   | 66.9   | 59.6   | 57.6   | 55.9   | 54.3   | 53.6   |
| 80°   | 1029.6 | 720.1  | 145.5  | 110.4  | 69.6   | 52.8   | 48.1   | 47.1   | 45.3   | 44.3   | 44.3   |
| 82.5° | 277.3  | 215.1  | 77.6   | 66.9   | 46.6   | 38.6   | 36.8   | 36.3   | 34.8   | 32.8   | 33.1   |
| 85°   | 112.2  | 94.9   | 43.6   | 36.8   | 28.6   | 22.8   | 24.8   | 25.0   | 23.3   | 20.8   | 21.0   |
| 87.5° | 49.3   | 40.3   | 24.3   | 16.3   | 12.5   | 8.8    | 11.3   | 11.3   | 10.3   | 8.5    | 7.8    |
| 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)