

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: P323426

Luminaire Tested: **GAN-SA2A-727-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323426  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2A-727-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6814 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

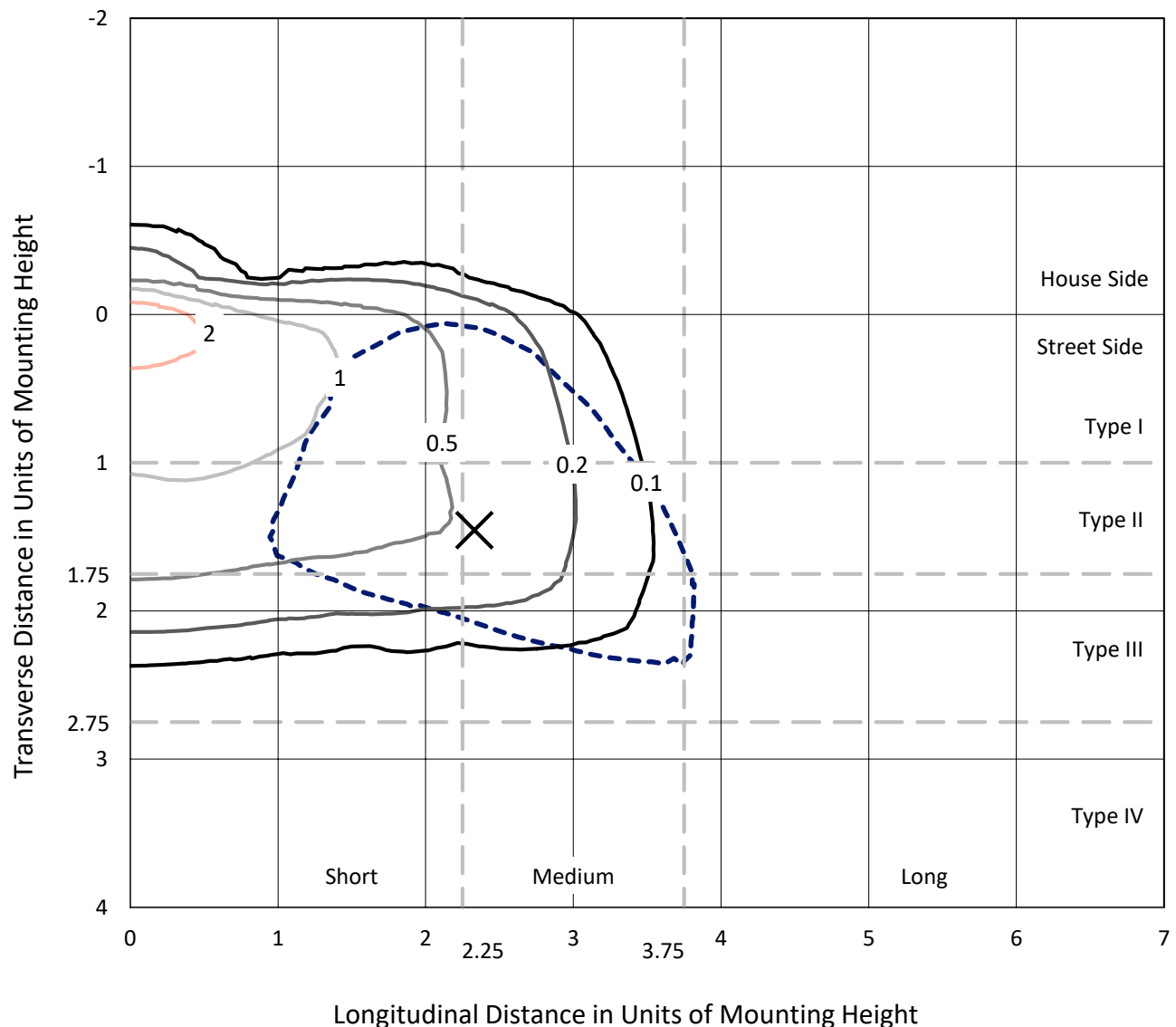
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

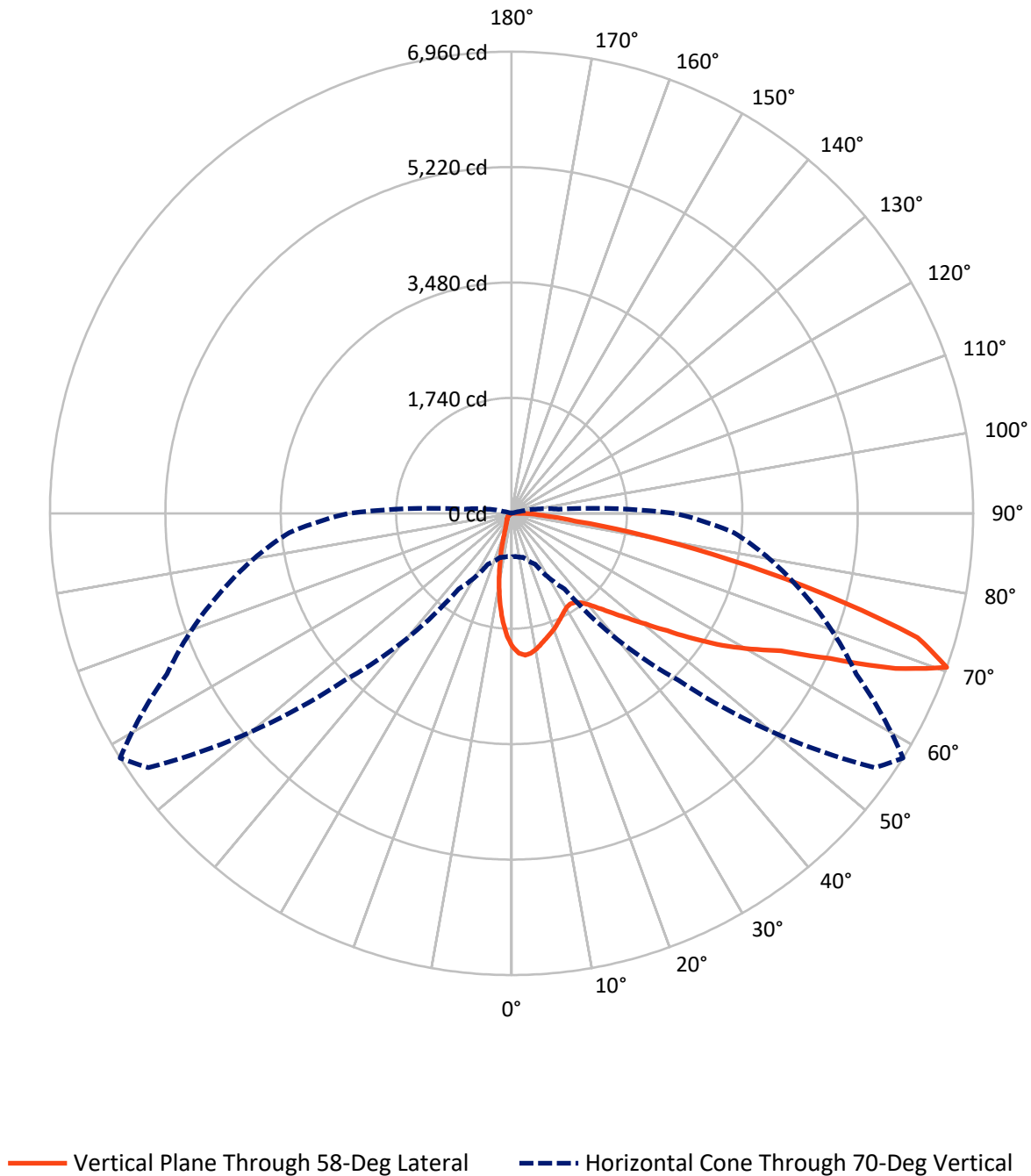
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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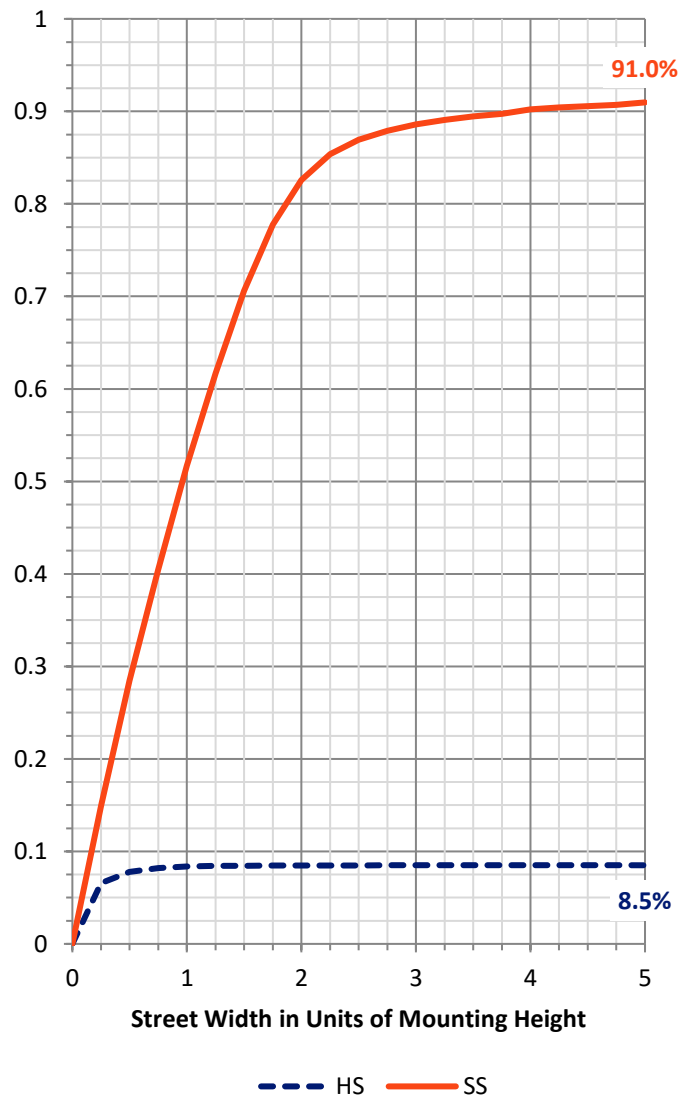
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 583.2    | 0.0    | 583.2  |
|                    | % Fixture | 8.6      | 0.0    | 8.6    |
| <b>Street Side</b> | Lumens    | 6230.9   | 0.0    | 6230.9 |
|                    | % Fixture | 91.4     | 0.0    | 91.4   |
| <b>Total</b>       | Lumens    | 6814.0   | 0.0    | 6814.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 164.6  | 2.4       |
| 10°-20°   | 345.5  | 5.1       |
| 20°-30°   | 454.2  | 6.7       |
| 30°-40°   | 601.5  | 8.8       |
| 40°-50°   | 899.0  | 13.2      |
| 50°-60°   | 1440.2 | 21.1      |
| 60°-70°   | 1815.3 | 26.6      |
| 70°-80°   | 979.2  | 14.4      |
| 80°-90°   | 114.6  | 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°    | 6814.0 | 100.0     |
| 0°-180°   | 6814.0 | 100.0     |

**Coefficient of Utilization**



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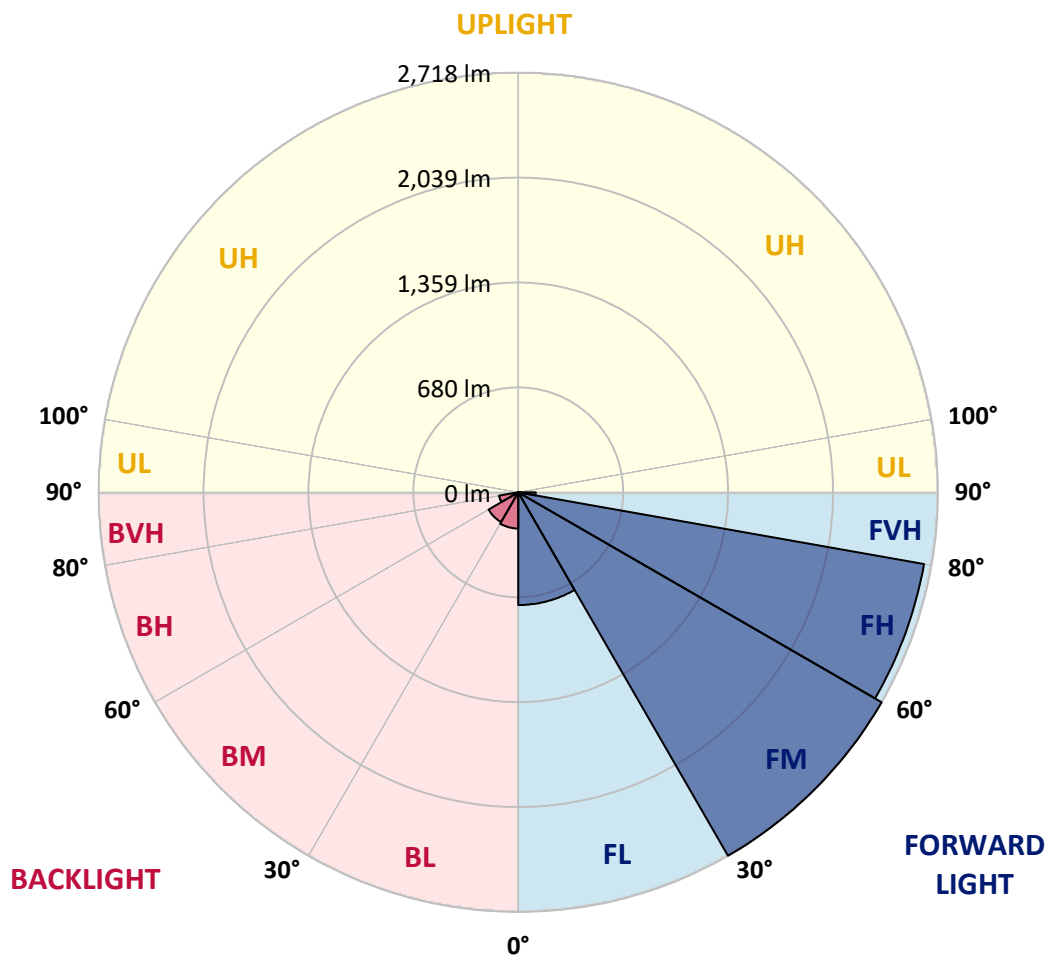
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 729.9  | 10.7      |                         |      |         |
| FM   | (30°-60°)   | 2718.2 | 39.9      |                         |      |         |
| FH   | (60°-80°)   | 2669.1 | 39.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 113.6  | 1.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 234.3  | 3.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 222.5  | 3.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 125.4  | 1.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.0    | 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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2012.8 | 2012.8 | 2012.8 | 2012.8 | 2012.8 | 2012.8 | 2012.8 | 2012.8 | 2012.8 | 2012.8 | 2012.8 |
| 2.5°  | 2179.7 | 2174.3 | 2172.3 | 2168.9 | 2155.9 | 2143.2 | 2117.9 | 2110.9 | 2095.0 | 2057.3 | 2017.4 |
| 5°    | 2181.4 | 2181.1 | 2187.1 | 2185.7 | 2181.1 | 2175.2 | 2157.0 | 2147.7 | 2120.8 | 2066.9 | 1993.8 |
| 7.5°  | 2076.3 | 2081.7 | 2095.0 | 2105.8 | 2118.2 | 2134.4 | 2136.6 | 2127.6 | 2105.5 | 2047.4 | 1950.5 |
| 10°   | 1935.2 | 1943.7 | 1962.4 | 1983.6 | 2016.2 | 2048.5 | 2077.4 | 2076.3 | 2068.6 | 2011.4 | 1898.4 |
| 12.5° | 1793.8 | 1803.7 | 1825.3 | 1856.7 | 1902.9 | 1955.6 | 2007.2 | 2014.2 | 2027.0 | 1979.1 | 1850.2 |
| 15°   | 1670.0 | 1678.5 | 1699.7 | 1738.3 | 1795.5 | 1866.3 | 1942.0 | 1955.0 | 1987.9 | 1953.9 | 1810.0 |
| 17.5° | 1564.9 | 1570.3 | 1585.8 | 1628.6 | 1694.9 | 1780.8 | 1879.1 | 1904.6 | 1953.6 | 1934.1 | 1775.1 |
| 20°   | 1491.5 | 1492.3 | 1502.5 | 1532.6 | 1598.9 | 1694.9 | 1813.9 | 1850.5 | 1917.3 | 1917.1 | 1739.1 |
| 22.5° | 1455.2 | 1452.4 | 1454.4 | 1471.7 | 1520.4 | 1613.0 | 1748.8 | 1792.1 | 1884.8 | 1902.6 | 1702.6 |
| 25°   | 1448.4 | 1446.2 | 1440.5 | 1442.8 | 1472.2 | 1541.4 | 1683.0 | 1733.2 | 1856.1 | 1893.8 | 1670.8 |
| 27.5° | 1469.7 | 1471.9 | 1462.3 | 1452.1 | 1454.4 | 1494.9 | 1624.7 | 1682.7 | 1832.9 | 1893.8 | 1648.5 |
| 30°   | 1512.5 | 1513.6 | 1506.5 | 1493.2 | 1475.3 | 1481.9 | 1584.1 | 1642.2 | 1821.3 | 1906.9 | 1634.3 |
| 32.5° | 1559.8 | 1566.0 | 1565.2 | 1554.4 | 1528.9 | 1502.5 | 1574.5 | 1627.5 | 1820.4 | 1935.8 | 1632.9 |
| 35°   | 1618.4 | 1625.5 | 1637.4 | 1635.1 | 1608.5 | 1565.2 | 1607.4 | 1649.0 | 1837.2 | 1983.4 | 1648.2 |
| 37.5° | 1680.8 | 1691.5 | 1717.0 | 1729.2 | 1711.9 | 1662.9 | 1681.0 | 1710.8 | 1881.9 | 2060.4 | 1687.0 |
| 40°   | 1741.1 | 1753.3 | 1799.8 | 1847.6 | 1834.6 | 1784.2 | 1792.7 | 1816.5 | 1961.5 | 2171.2 | 1760.7 |
| 42.5° | 1800.3 | 1818.5 | 1886.7 | 1965.5 | 1981.1 | 1940.9 | 1945.4 | 1964.4 | 2079.7 | 2323.6 | 1881.1 |
| 45°   | 1871.2 | 1891.6 | 1992.7 | 2089.9 | 2131.5 | 2114.0 | 2133.2 | 2145.7 | 2234.1 | 2525.1 | 2043.4 |
| 47.5° | 1975.1 | 1998.7 | 2122.8 | 2233.5 | 2306.6 | 2318.0 | 2356.8 | 2365.0 | 2429.3 | 2759.7 | 2255.1 |
| 50°   | 2178.0 | 2184.5 | 2296.7 | 2397.3 | 2502.7 | 2570.7 | 2614.9 | 2621.1 | 2665.6 | 3016.1 | 2519.4 |
| 52.5° | 2433.3 | 2437.5 | 2501.0 | 2568.4 | 2688.3 | 2827.1 | 2930.6 | 2939.3 | 2948.7 | 3266.0 | 2780.4 |
| 55°   | 2686.9 | 2686.3 | 2728.2 | 2767.9 | 2905.1 | 3106.8 | 3331.2 | 3336.6 | 3269.4 | 3503.2 | 2979.9 |
| 57.5° | 2845.3 | 2860.6 | 2924.3 | 2975.3 | 3166.9 | 3425.5 | 3736.9 | 3756.8 | 3606.3 | 3678.8 | 3177.1 |
| 60°   | 2794.8 | 2802.2 | 2943.6 | 3132.3 | 3493.0 | 3878.6 | 4147.5 | 4152.6 | 3859.6 | 3854.2 | 3426.4 |
| 62.5° | 2381.2 | 2385.1 | 2607.3 | 2996.3 | 3658.2 | 4466.2 | 4642.8 | 4559.7 | 4150.9 | 4097.6 | 3724.7 |
| 65°   | 1632.0 | 1657.8 | 1843.4 | 2324.2 | 3354.7 | 4834.9 | 5409.5 | 5272.0 | 4594.9 | 4448.4 | 3994.5 |
| 67.5° | 961.1  | 955.7  | 1047.5 | 1401.7 | 2463.9 | 4590.1 | 6379.3 | 6242.8 | 5200.4 | 4683.3 | 3915.4 |
| 70°   | 656.5  | 652.8  | 687.9  | 848.6  | 1390.9 | 3560.7 | 6684.5 | 6960.2 | 5735.0 | 4525.2 | 3369.7 |
| 72.5° | 468.6  | 470.6  | 522.5  | 659.3  | 873.2  | 2074.6 | 5748.3 | 6400.9 | 5567.6 | 3944.9 | 2561.4 |
| 75°   | 318.2  | 323.6  | 397.8  | 540.9  | 765.6  | 1055.4 | 4079.2 | 4865.7 | 4533.7 | 2867.1 | 1472.2 |
| 77.5° | 171.1  | 177.1  | 264.6  | 435.8  | 692.2  | 733.3  | 2624.0 | 3348.8 | 2847.8 | 1288.9 | 426.7  |
| 80°   | 71.4   | 74.8   | 123.8  | 316.8  | 598.1  | 644.0  | 1543.9 | 2030.7 | 1213.5 | 254.2  | 95.2   |
| 82.5° | 30.9   | 32.6   | 51.6   | 189.0  | 447.1  | 543.7  | 817.4  | 976.9  | 367.8  | 55.8   | 47.9   |
| 85°   | 6.0    | 6.2    | 21.3   | 100.0  | 285.3  | 306.9  | 529.8  | 519.4  | 165.2  | 24.1   | 34.9   |
| 87.5° | 0.0    | 0.0    | 5.1    | 31.5   | 83.9   | 167.2  | 323.3  | 319.3  | 56.1   | 11.6   | 13.0   |
| 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°    | 2012.8 | 2012.8 | 2012.8 | 2012.8 | 2012.8 | 2012.8 | 2012.8 | 2012.8 | 2012.8 | 2012.8 | 2012.8 |
| 2.5°  | 1997.0 | 1977.4 | 1936.3 | 1885.6 | 1846.8 | 1804.0 | 1770.0 | 1726.9 | 1708.2 | 1709.1 | 1698.9 |
| 5°    | 1952.2 | 1912.0 | 1821.0 | 1706.3 | 1617.9 | 1526.6 | 1448.1 | 1369.9 | 1323.7 | 1308.7 | 1294.6 |
| 7.5°  | 1888.2 | 1824.4 | 1679.3 | 1502.5 | 1352.9 | 1206.7 | 1079.5 | 967.6  | 896.8  | 862.2  | 849.4  |
| 10°   | 1815.9 | 1726.4 | 1516.4 | 1283.5 | 1069.9 | 872.1  | 707.2  | 563.8  | 506.6  | 467.8  | 457.9  |
| 12.5° | 1752.4 | 1631.2 | 1357.2 | 1058.8 | 805.2  | 566.7  | 409.4  | 320.2  | 281.4  | 266.1  | 263.5  |
| 15°   | 1692.7 | 1542.2 | 1203.9 | 855.4  | 557.6  | 348.8  | 260.4  | 230.1  | 221.0  | 218.5  | 218.5  |
| 17.5° | 1636.3 | 1457.5 | 1054.0 | 655.1  | 368.9  | 244.5  | 215.6  | 208.8  | 206.0  | 205.7  | 206.0  |
| 20°   | 1577.3 | 1372.8 | 906.7  | 480.0  | 257.6  | 207.1  | 199.2  | 195.5  | 194.7  | 194.7  | 194.7  |
| 22.5° | 1521.0 | 1288.0 | 763.3  | 342.8  | 206.6  | 189.0  | 185.0  | 182.5  | 181.6  | 181.3  | 180.8  |
| 25°   | 1466.8 | 1207.6 | 623.3  | 242.3  | 181.3  | 173.1  | 169.7  | 166.3  | 163.8  | 162.4  | 161.5  |
| 27.5° | 1422.3 | 1135.9 | 493.0  | 194.4  | 163.8  | 156.7  | 152.4  | 147.3  | 141.1  | 138.3  | 137.1  |
| 30°   | 1386.9 | 1070.4 | 380.0  | 164.1  | 147.3  | 140.3  | 133.7  | 125.0  | 115.9  | 111.1  | 110.8  |
| 32.5° | 1359.2 | 1006.1 | 288.4  | 145.1  | 132.6  | 123.8  | 114.5  | 103.4  | 92.9   | 87.6   | 87.3   |
| 35°   | 1345.6 | 949.5  | 220.4  | 131.2  | 119.6  | 108.5  | 96.9   | 84.7   | 74.5   | 69.4   | 68.9   |
| 37.5° | 1354.6 | 901.6  | 172.0  | 119.6  | 108.5  | 95.8   | 82.2   | 69.4   | 60.4   | 55.8   | 55.5   |
| 40°   | 1387.8 | 871.0  | 139.7  | 109.7  | 99.2   | 83.6   | 68.9   | 57.0   | 49.3   | 45.6   | 45.3   |
| 42.5° | 1458.3 | 859.6  | 119.3  | 101.4  | 90.1   | 72.3   | 57.2   | 47.0   | 40.0   | 37.4   | 36.8   |
| 45°   | 1576.2 | 876.4  | 105.4  | 93.5   | 80.8   | 61.5   | 47.3   | 38.5   | 32.3   | 30.3   | 30.0   |
| 47.5° | 1733.2 | 920.3  | 95.5   | 85.9   | 72.3   | 51.9   | 39.4   | 31.2   | 26.4   | 24.4   | 24.1   |
| 50°   | 1935.5 | 990.0  | 87.3   | 78.2   | 64.3   | 43.9   | 32.6   | 24.7   | 20.4   | 19.0   | 19.0   |
| 52.5° | 2155.6 | 1073.0 | 79.9   | 71.1   | 56.4   | 36.6   | 26.4   | 19.0   | 16.2   | 14.5   | 14.5   |
| 55°   | 2337.5 | 1145.5 | 72.0   | 65.7   | 46.8   | 30.3   | 20.1   | 14.5   | 11.9   | 11.1   | 11.1   |
| 57.5° | 2519.1 | 1222.9 | 62.9   | 56.4   | 37.4   | 24.7   | 15.3   | 10.8   | 8.8    | 8.2    | 8.2    |
| 60°   | 2754.6 | 1317.5 | 54.1   | 45.9   | 29.5   | 18.7   | 11.3   | 7.7    | 6.5    | 6.2    | 6.2    |
| 62.5° | 3013.6 | 1373.0 | 46.2   | 36.8   | 23.0   | 13.9   | 8.2    | 5.1    | 4.8    | 4.8    | 4.5    |
| 65°   | 3172.0 | 1294.6 | 38.8   | 29.5   | 17.9   | 10.5   | 5.4    | 3.7    | 4.3    | 4.0    | 3.4    |
| 67.5° | 2969.9 | 1013.5 | 31.7   | 23.0   | 13.9   | 7.9    | 3.4    | 2.6    | 4.5    | 3.7    | 2.8    |
| 70°   | 2459.1 | 709.5  | 24.7   | 16.2   | 11.1   | 6.8    | 2.3    | 1.7    | 4.8    | 3.7    | 2.3    |
| 72.5° | 1840.3 | 474.9  | 19.6   | 10.8   | 8.2    | 6.0    | 2.0    | 0.9    | 4.3    | 3.1    | 2.0    |
| 75°   | 1005.6 | 191.3  | 15.6   | 6.8    | 5.1    | 4.3    | 1.4    | 0.6    | 2.8    | 2.3    | 1.4    |
| 77.5° | 264.6  | 50.4   | 11.3   | 4.5    | 2.8    | 1.7    | 0.9    | 0.3    | 1.4    | 1.1    | 0.6    |
| 80°   | 67.4   | 19.6   | 7.4    | 3.1    | 2.0    | 0.9    | 0.0    | 0.0    | 0.3    | 0.0    | 0.0    |
| 82.5° | 36.0   | 8.2    | 4.5    | 2.3    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 27.2   | 5.4    | 2.6    | 1.4    | 0.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 10.5   | 1.7    | 0.9    | 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)