

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: P200137

Luminaire Tested: **GAP-AF-01-LED-U-SL3-1200**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200137  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-01-LED-U-SL3-1200  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7134.1 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

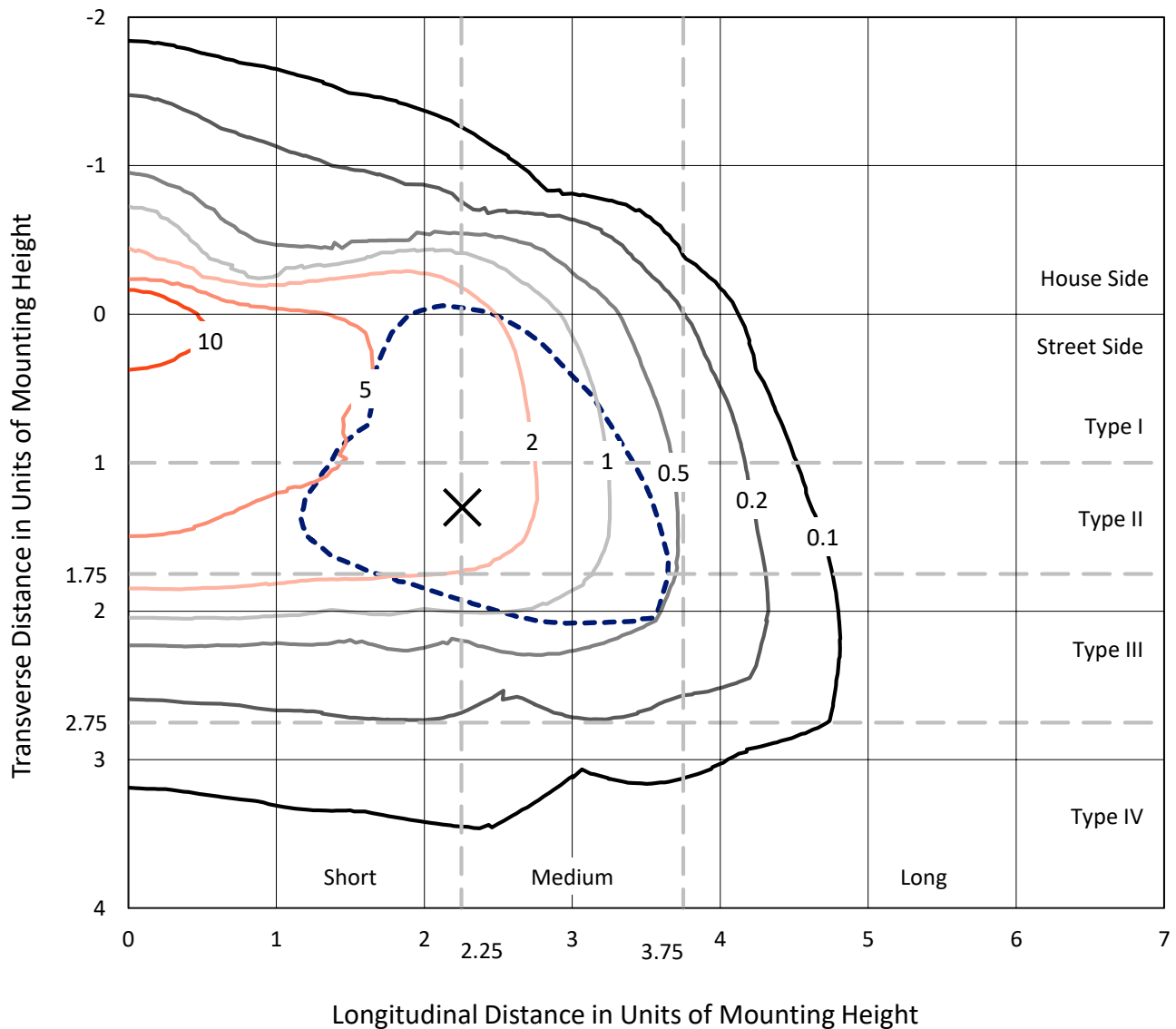


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

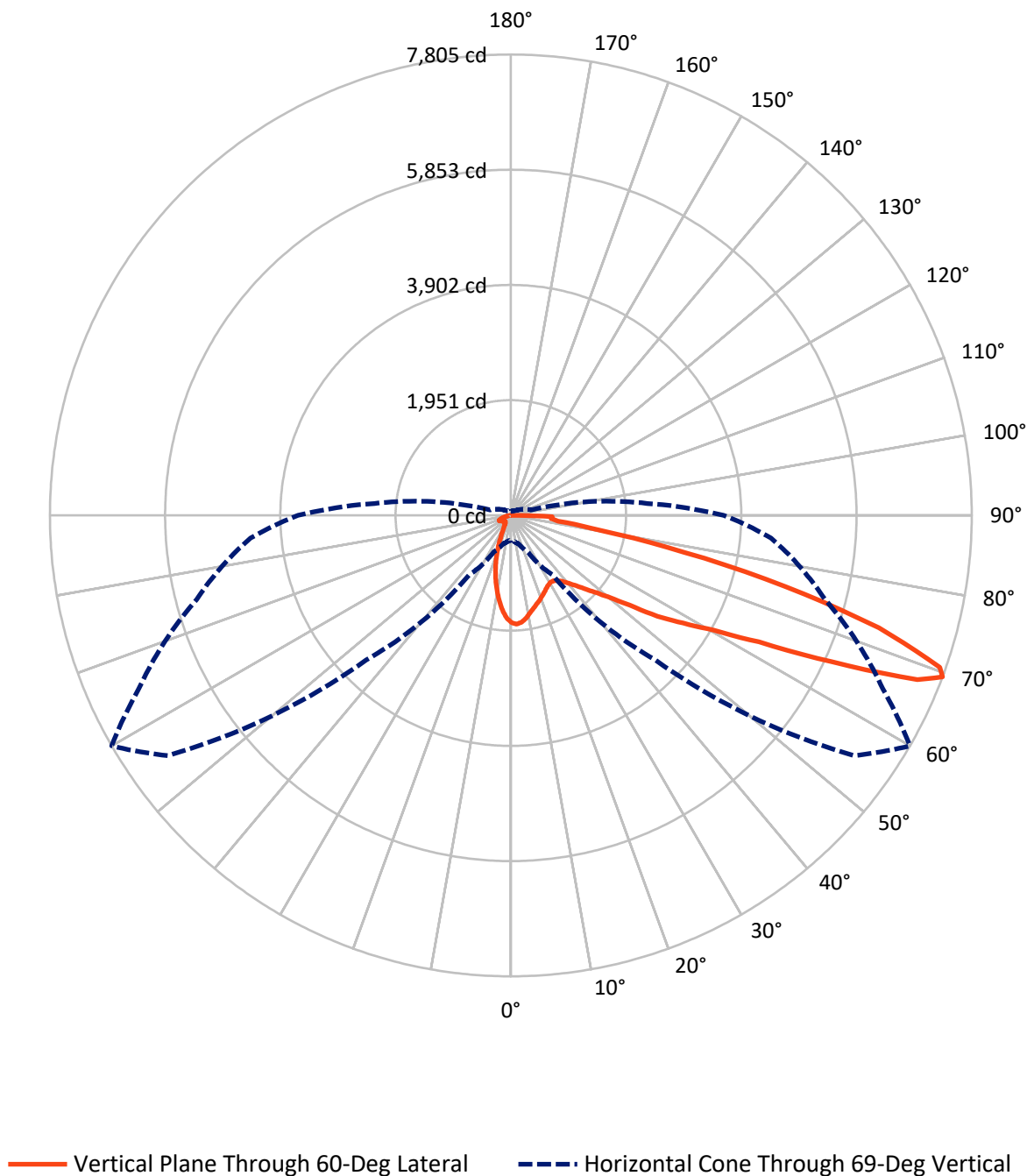


Based on 10 foot mounting height. Maximum calculated value = 18.2 fc  
Type III - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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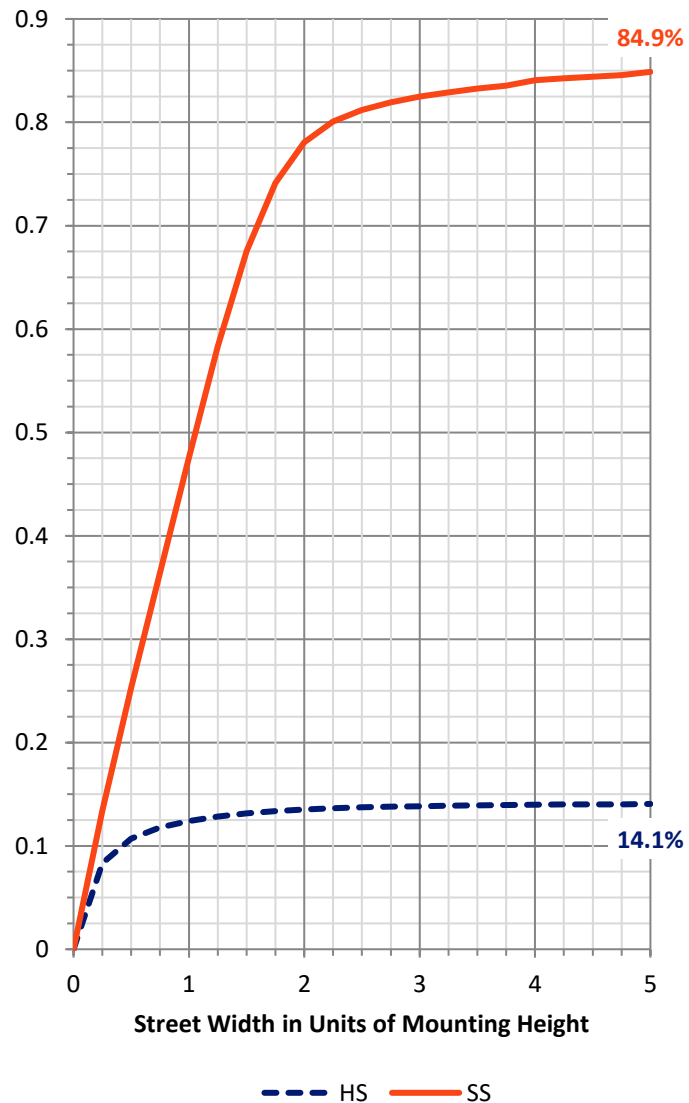
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1015.0   | 0.0    | 1015.0 |
|                    | % Fixture | 14.2     | 0.0    | 14.2   |
| <b>Street Side</b> | Lumens    | 6119.1   | 0.0    | 6119.1 |
|                    | % Fixture | 85.8     | 0.0    | 85.8   |
| <b>Total</b>       | Lumens    | 7134.1   | 0.0    | 7134.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 153.7  | 2.2       |
| 10°-20°   | 327.5  | 4.6       |
| 20°-30°   | 417.3  | 5.8       |
| 30°-40°   | 573.6  | 8.0       |
| 40°-50°   | 930.8  | 13.0      |
| 50°-60°   | 1492.7 | 20.9      |
| 60°-70°   | 1986.7 | 27.8      |
| 70°-80°   | 1072.7 | 15.0      |
| 80°-90°   | 179.0  | 2.5       |
| 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°    | 7134.1 | 100.0     |
| 0°-180°   | 7134.1 | 100.0     |

**Coefficient of Utilization**



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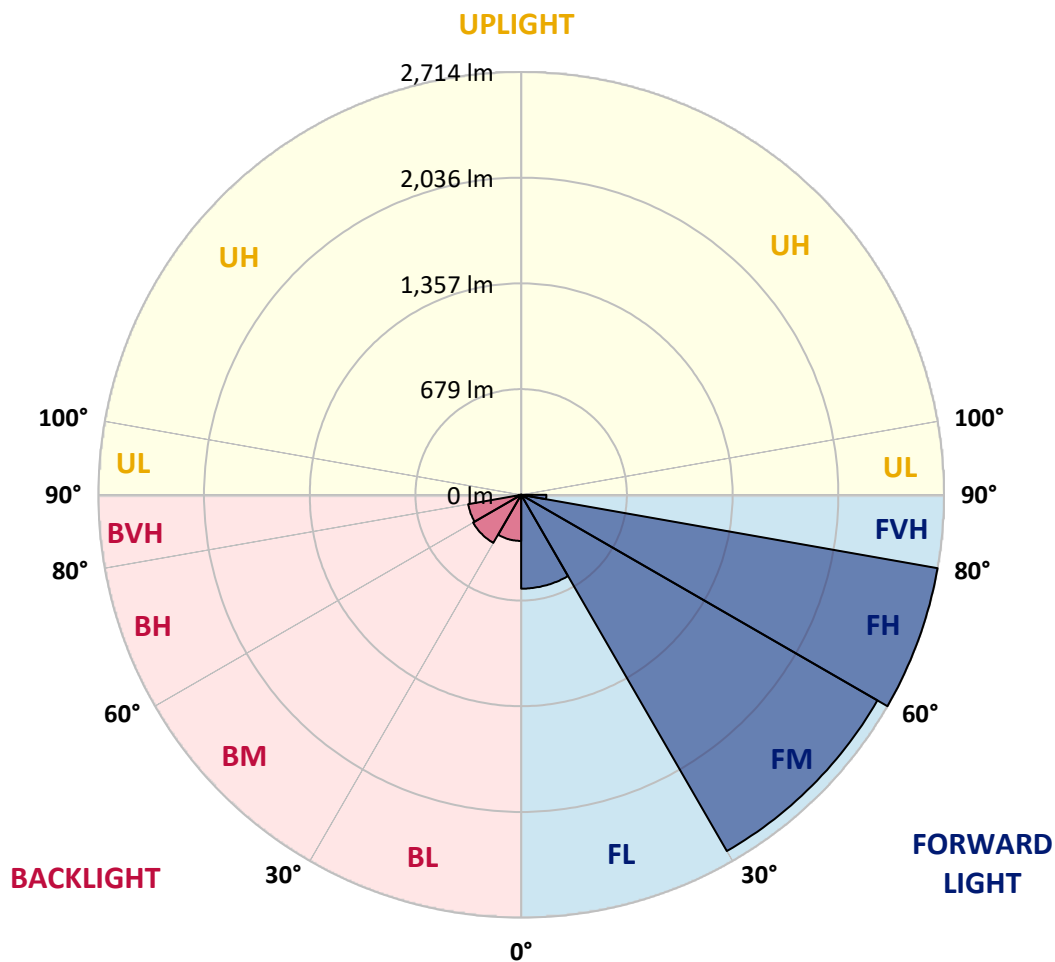
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 602.4  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 2640.6 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 2714.4 | 38.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 161.8  | 2.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 296.1  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 356.6  | 5.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 345.1  | 4.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 17.2   | 0.2       |                         |      | 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°    | 1817.9 | 1817.9 | 1817.9 | 1817.9 | 1817.9 | 1817.9 | 1817.9 | 1817.9 | 1817.9 | 1817.9 | 1817.9 |
| 2.5°  | 1855.1 | 1859.2 | 1857.5 | 1856.5 | 1859.5 | 1854.7 | 1844.8 | 1841.6 | 1836.8 | 1825.5 | 1806.1 |
| 5°    | 1785.5 | 1797.8 | 1797.2 | 1806.5 | 1822.0 | 1826.2 | 1821.7 | 1822.4 | 1813.4 | 1799.3 | 1767.2 |
| 7.5°  | 1665.2 | 1670.4 | 1673.1 | 1693.5 | 1721.7 | 1744.4 | 1763.8 | 1770.0 | 1765.8 | 1753.7 | 1712.4 |
| 10°   | 1541.2 | 1545.3 | 1551.8 | 1575.5 | 1611.5 | 1642.8 | 1679.4 | 1700.3 | 1709.4 | 1707.2 | 1661.1 |
| 12.5° | 1434.7 | 1438.8 | 1447.4 | 1474.3 | 1517.0 | 1555.6 | 1608.7 | 1634.9 | 1656.3 | 1668.9 | 1619.3 |
| 15°   | 1339.1 | 1348.1 | 1356.4 | 1387.4 | 1435.3 | 1486.0 | 1546.0 | 1579.0 | 1612.2 | 1640.7 | 1582.5 |
| 17.5° | 1264.8 | 1273.7 | 1278.6 | 1306.8 | 1357.8 | 1419.9 | 1490.1 | 1529.1 | 1570.4 | 1617.3 | 1546.0 |
| 20°   | 1221.7 | 1225.8 | 1223.8 | 1239.6 | 1285.4 | 1351.2 | 1434.7 | 1479.8 | 1529.7 | 1595.3 | 1509.5 |
| 22.5° | 1209.6 | 1209.9 | 1202.4 | 1200.6 | 1230.3 | 1285.7 | 1375.4 | 1430.2 | 1491.5 | 1580.8 | 1478.1 |
| 25°   | 1238.9 | 1237.9 | 1217.2 | 1200.3 | 1203.4 | 1235.8 | 1318.2 | 1381.9 | 1459.4 | 1577.7 | 1453.9 |
| 27.5° | 1304.1 | 1307.1 | 1276.4 | 1244.7 | 1213.4 | 1212.4 | 1274.7 | 1341.9 | 1433.3 | 1591.8 | 1443.6 |
| 30°   | 1395.4 | 1400.5 | 1367.8 | 1327.5 | 1268.6 | 1220.0 | 1257.8 | 1318.2 | 1417.1 | 1621.1 | 1441.8 |
| 32.5° | 1495.3 | 1500.8 | 1476.0 | 1433.7 | 1356.4 | 1266.8 | 1269.6 | 1320.2 | 1416.4 | 1662.1 | 1453.6 |
| 35°   | 1601.8 | 1608.0 | 1595.3 | 1559.4 | 1473.6 | 1353.4 | 1314.4 | 1353.7 | 1438.8 | 1724.8 | 1484.9 |
| 37.5° | 1720.7 | 1730.3 | 1733.8 | 1699.6 | 1608.0 | 1467.4 | 1387.7 | 1417.1 | 1489.4 | 1812.1 | 1542.5 |
| 40°   | 1891.9 | 1905.5 | 1904.3 | 1855.4 | 1762.0 | 1621.5 | 1501.2 | 1508.8 | 1568.4 | 1928.5 | 1634.6 |
| 42.5° | 2220.0 | 2222.8 | 2136.9 | 2030.5 | 1931.6 | 1783.4 | 1634.9 | 1628.6 | 1677.2 | 2076.0 | 1770.0 |
| 45°   | 2637.4 | 2626.0 | 2435.0 | 2229.3 | 2108.7 | 1969.5 | 1808.9 | 1778.6 | 1815.4 | 2255.9 | 1939.5 |
| 47.5° | 2983.7 | 2957.6 | 2716.2 | 2432.4 | 2296.2 | 2171.8 | 2013.3 | 1960.2 | 1980.5 | 2459.9 | 2158.7 |
| 50°   | 3103.9 | 3084.3 | 2884.4 | 2601.2 | 2473.7 | 2418.6 | 2264.8 | 2189.7 | 2195.3 | 2703.1 | 2415.4 |
| 52.5° | 3078.2 | 3075.4 | 2942.0 | 2712.5 | 2639.8 | 2677.7 | 2621.2 | 2519.5 | 2465.7 | 2973.4 | 2692.5 |
| 55°   | 3017.1 | 3023.0 | 2974.7 | 2842.1 | 2829.7 | 2927.9 | 3086.8 | 3011.7 | 2844.5 | 3245.9 | 2978.9 |
| 57.5° | 2805.2 | 2820.4 | 2926.5 | 3005.1 | 3135.3 | 3281.4 | 3461.7 | 3440.3 | 3252.2 | 3540.6 | 3319.4 |
| 60°   | 2260.0 | 2295.2 | 2579.8 | 2973.4 | 3450.0 | 3907.0 | 3987.6 | 3938.0 | 3672.6 | 3906.2 | 3769.1 |
| 62.5° | 1583.5 | 1620.0 | 1958.4 | 2574.3 | 3398.2 | 4613.4 | 4927.8 | 4713.7 | 4276.3 | 4444.9 | 4351.1 |
| 65°   | 847.7  | 865.3  | 1123.8 | 1786.2 | 2869.0 | 4759.2 | 6301.7 | 5976.1 | 5232.4 | 5109.0 | 4849.1 |
| 67.5° | 467.7  | 477.3  | 576.2  | 901.8  | 1837.5 | 4190.9 | 7177.0 | 7423.1 | 6427.2 | 5551.1 | 4758.5 |
| 69°   | 422.9  | 431.8  | 496.6  | 683.0  | 1229.6 | 3465.1 | 7091.6 | 7804.6 | 6951.0 | 5507.4 | 4423.5 |
| 70°   | 413.6  | 421.9  | 480.1  | 629.6  | 995.2  | 2856.2 | 6805.2 | 7707.1 | 7075.8 | 5350.5 | 4131.3 |
| 72.5° | 372.1  | 381.2  | 437.6  | 565.5  | 850.5  | 1423.9 | 5390.5 | 6516.4 | 6424.0 | 4639.3 | 3133.6 |
| 75°   | 347.0  | 355.3  | 451.1  | 553.8  | 814.4  | 901.2  | 3553.7 | 4802.7 | 4722.4 | 3245.3 | 1689.7 |
| 77.5° | 148.5  | 147.8  | 209.2  | 468.7  | 826.4  | 872.6  | 1909.5 | 3000.2 | 2737.3 | 1387.1 | 485.2  |
| 80°   | 99.2   | 97.5   | 99.2   | 137.9  | 757.8  | 877.4  | 1000.4 | 1522.9 | 1150.3 | 353.5  | 239.2  |
| 82.5° | 85.4   | 84.1   | 87.2   | 84.1   | 266.4  | 1001.5 | 850.5  | 809.9  | 546.9  | 200.9  | 118.6  |
| 85°   | 57.6   | 55.1   | 75.1   | 75.5   | 125.8  | 889.8  | 958.0  | 684.0  | 442.5  | 119.3  | 58.6   |
| 87.5° | 27.6   | 26.9   | 43.8   | 53.4   | 73.8   | 361.5  | 1074.9 | 700.9  | 446.3  | 61.0   | 27.9   |
| 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°    | 1817.9 | 1817.9 | 1817.9 | 1817.9 | 1817.9 | 1817.9 | 1817.9 | 1817.9 | 1817.9 | 1817.9 | 1817.9 |
| 2.5°  | 1800.3 | 1786.2 | 1772.4 | 1755.8 | 1738.6 | 1719.3 | 1709.7 | 1700.0 | 1697.6 | 1694.8 | 1685.2 |
| 5°    | 1750.7 | 1730.6 | 1696.3 | 1658.3 | 1618.3 | 1579.4 | 1549.8 | 1531.2 | 1517.0 | 1509.8 | 1497.0 |
| 7.5°  | 1686.5 | 1657.3 | 1596.9 | 1531.5 | 1464.3 | 1403.0 | 1349.9 | 1316.4 | 1284.7 | 1269.9 | 1253.0 |
| 10°   | 1625.6 | 1581.8 | 1488.1 | 1391.6 | 1295.1 | 1202.4 | 1115.2 | 1053.5 | 998.7  | 968.0  | 946.3  |
| 12.5° | 1573.2 | 1513.3 | 1383.3 | 1252.7 | 1120.3 | 988.4  | 857.7  | 755.0  | 669.2  | 624.1  | 601.0  |
| 15°   | 1522.2 | 1449.8 | 1283.7 | 1118.0 | 948.1  | 768.5  | 596.9  | 480.4  | 409.4  | 381.2  | 371.5  |
| 17.5° | 1476.0 | 1383.3 | 1183.8 | 982.1  | 770.2  | 553.1  | 401.1  | 337.1  | 309.9  | 300.5  | 297.4  |
| 20°   | 1426.0 | 1316.1 | 1080.0 | 840.1  | 584.8  | 386.7  | 313.2  | 285.0  | 273.9  | 271.2  | 269.9  |
| 22.5° | 1377.8 | 1249.9 | 980.8  | 688.2  | 420.1  | 298.4  | 269.1  | 257.5  | 255.7  | 258.1  | 258.1  |
| 25°   | 1336.8 | 1190.6 | 873.6  | 529.4  | 308.4  | 251.2  | 240.9  | 238.1  | 244.7  | 253.6  | 255.3  |
| 27.5° | 1306.1 | 1142.0 | 759.5  | 390.8  | 245.7  | 218.5  | 218.1  | 222.6  | 238.9  | 256.0  | 259.5  |
| 30°   | 1285.1 | 1095.9 | 637.5  | 281.9  | 206.1  | 192.3  | 197.8  | 207.5  | 231.3  | 255.7  | 262.3  |
| 32.5° | 1274.4 | 1061.8 | 510.4  | 218.1  | 176.5  | 168.9  | 178.2  | 189.9  | 213.3  | 236.1  | 244.7  |
| 35°   | 1282.7 | 1036.7 | 390.5  | 182.0  | 155.8  | 149.9  | 159.6  | 170.9  | 184.7  | 194.4  | 200.9  |
| 37.5° | 1313.7 | 1026.6 | 294.6  | 163.0  | 141.7  | 136.2  | 143.7  | 150.3  | 155.8  | 158.6  | 161.6  |
| 40°   | 1380.6 | 1037.3 | 236.1  | 153.3  | 133.7  | 126.8  | 129.9  | 132.4  | 135.7  | 138.5  | 139.9  |
| 42.5° | 1479.1 | 1069.4 | 211.5  | 149.6  | 129.6  | 119.6  | 118.9  | 119.9  | 124.4  | 129.6  | 130.6  |
| 45°   | 1617.0 | 1125.9 | 209.9  | 152.0  | 127.5  | 113.8  | 110.6  | 112.0  | 118.9  | 126.8  | 128.2  |
| 47.5° | 1793.0 | 1212.0 | 223.6  | 159.2  | 129.2  | 110.6  | 105.5  | 107.2  | 115.8  | 126.4  | 128.2  |
| 50°   | 2006.4 | 1332.3 | 246.7  | 169.9  | 136.8  | 111.3  | 103.7  | 104.8  | 113.8  | 125.4  | 127.2  |
| 52.5° | 2258.3 | 1502.9 | 271.9  | 180.2  | 144.7  | 115.8  | 105.2  | 102.7  | 111.0  | 121.3  | 123.4  |
| 55°   | 2538.5 | 1721.7 | 297.8  | 189.6  | 148.8  | 121.3  | 107.8  | 99.9   | 105.8  | 114.4  | 116.1  |
| 57.5° | 2882.4 | 2027.7 | 342.6  | 198.5  | 151.6  | 125.1  | 110.6  | 97.2   | 99.2   | 105.5  | 106.8  |
| 60°   | 3348.0 | 2460.6 | 421.5  | 213.3  | 157.8  | 126.4  | 110.3  | 94.7   | 92.7   | 96.2   | 96.9   |
| 62.5° | 3905.9 | 2930.7 | 487.3  | 231.9  | 168.2  | 127.5  | 108.2  | 93.1   | 87.2   | 87.2   | 87.9   |
| 65°   | 4237.1 | 3056.5 | 450.7  | 247.5  | 176.8  | 126.4  | 105.8  | 91.3   | 83.1   | 79.3   | 79.6   |
| 67.5° | 3956.3 | 2688.0 | 386.4  | 250.5  | 176.5  | 121.6  | 102.0  | 88.2   | 78.9   | 73.0   | 72.7   |
| 69°   | 3604.4 | 2319.3 | 357.4  | 242.2  | 168.2  | 115.5  | 97.2   | 84.8   | 75.8   | 69.7   | 69.3   |
| 70°   | 3320.7 | 2094.3 | 338.4  | 233.3  | 159.2  | 111.0  | 93.4   | 81.6   | 73.4   | 67.5   | 66.9   |
| 72.5° | 2414.4 | 1372.3 | 289.1  | 200.6  | 131.3  | 93.1   | 80.6   | 71.7   | 65.5   | 62.0   | 61.4   |
| 75°   | 1206.5 | 654.4  | 234.7  | 162.6  | 100.7  | 74.5   | 66.2   | 59.9   | 56.9   | 56.2   | 55.9   |
| 77.5° | 396.3  | 299.8  | 167.9  | 121.3  | 74.8   | 58.2   | 53.4   | 48.9   | 48.3   | 50.3   | 49.6   |
| 80°   | 217.8  | 174.4  | 106.5  | 80.3   | 51.0   | 42.8   | 42.0   | 39.6   | 40.7   | 44.1   | 43.4   |
| 82.5° | 111.0  | 90.6   | 65.8   | 48.3   | 34.5   | 30.7   | 33.5   | 32.0   | 33.5   | 36.5   | 36.2   |
| 85°   | 54.8   | 49.6   | 41.7   | 29.3   | 22.7   | 19.6   | 23.7   | 24.9   | 25.5   | 27.9   | 27.9   |
| 87.5° | 31.7   | 29.3   | 22.1   | 13.8   | 11.4   | 10.3   | 13.8   | 13.4   | 15.9   | 17.2   | 16.9   |
| 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)