

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: P269876

Luminaire Tested: **GAP-AF-02-LED-U-SL3-7027-800**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P269876  
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-02-LED-U-SL3-7027-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES 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: 8721.5 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 86  
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

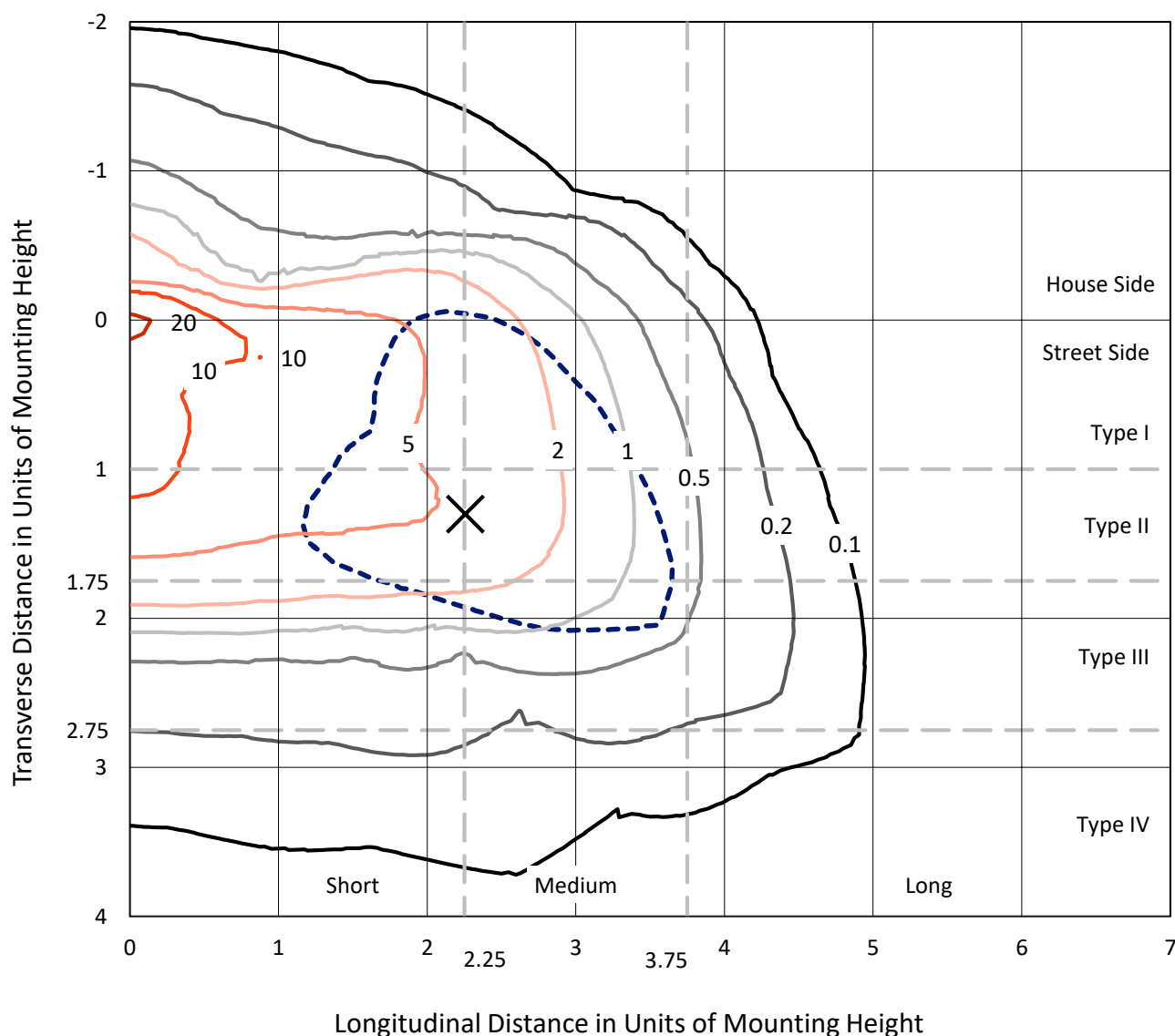


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

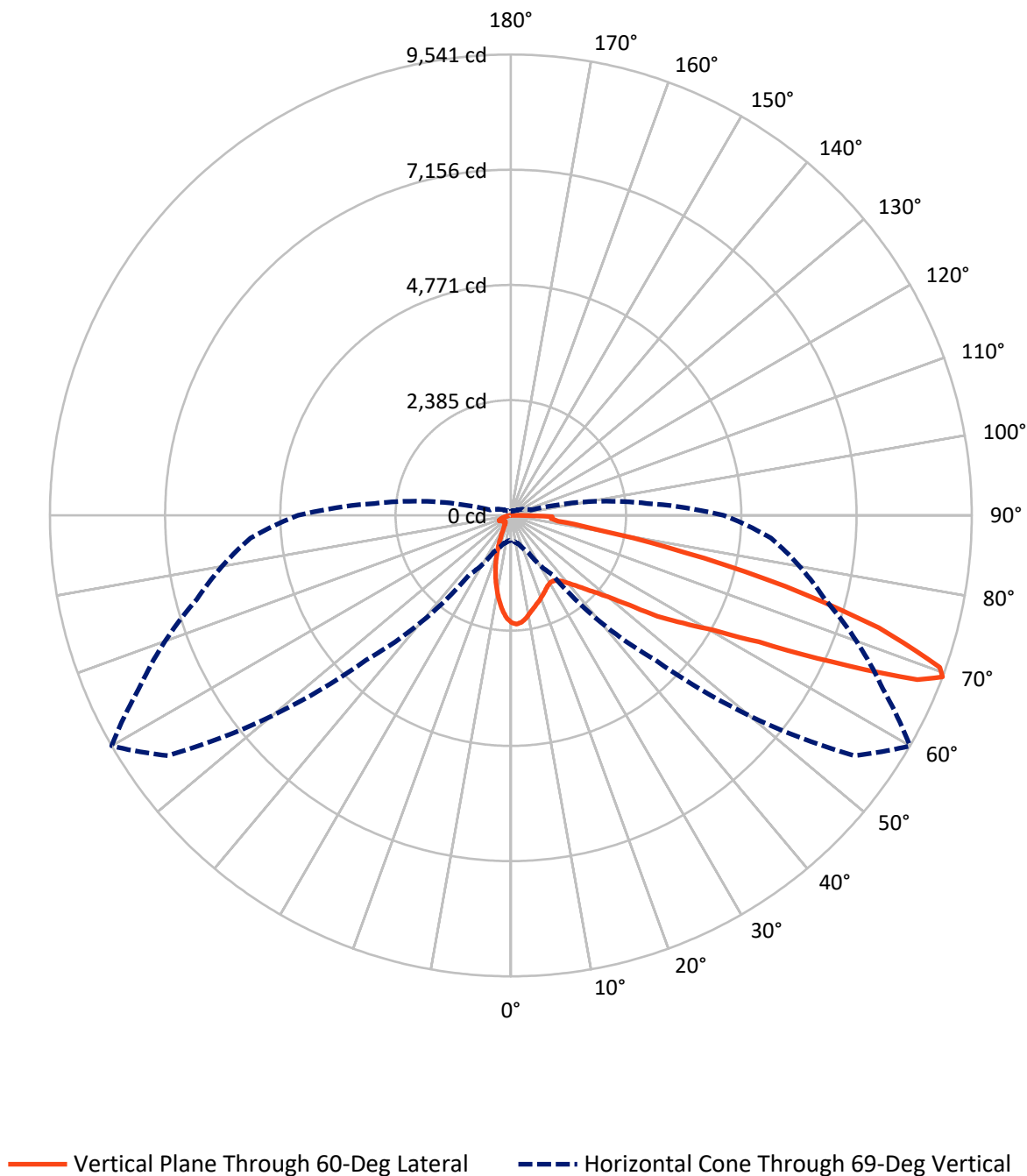


Based on 10 foot mounting height. Maximum calculated value = 22.2 fc  
Type III - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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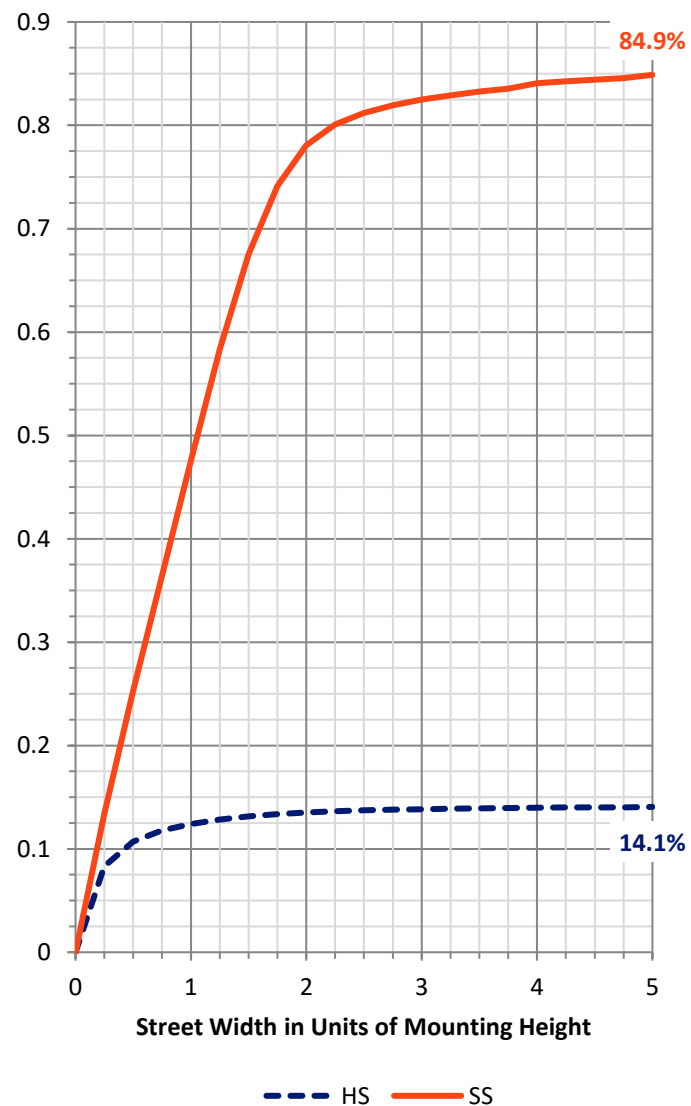
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1240.8   | 0.0    | 1240.8 |
|                    | % Fixture | 14.2     | 0.0    | 14.2   |
| <b>Street Side</b> | Lumens    | 7480.7   | 0.0    | 7480.7 |
|                    | % Fixture | 85.8     | 0.0    | 85.8   |
| <b>Total</b>       | Lumens    | 8721.5   | 0.0    | 8721.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 187.9  | 2.2       |
| 10°-20°   | 400.4  | 4.6       |
| 20°-30°   | 510.1  | 5.8       |
| 30°-40°   | 701.3  | 8.0       |
| 40°-50°   | 1137.9 | 13.0      |
| 50°-60°   | 1824.9 | 20.9      |
| 60°-70°   | 2428.8 | 27.8      |
| 70°-80°   | 1311.4 | 15.0      |
| 80°-90°   | 218.8  | 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°    | 8721.5 | 100.0     |
| 0°-180°   | 8721.5 | 100.0     |

**Coefficient of Utilization**



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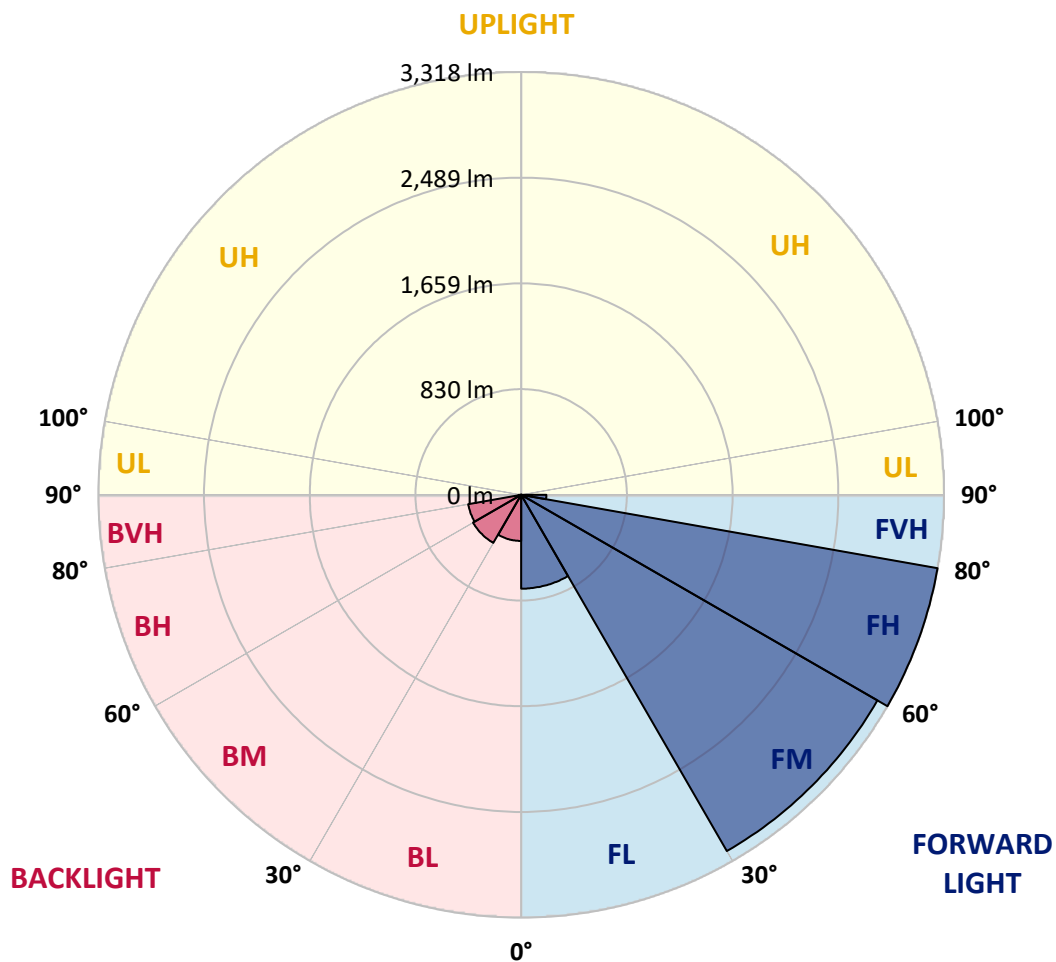
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 736.4  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 3228.2 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 3318.3 | 38.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 197.7  | 2.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 362.0  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 435.9  | 5.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 421.8  | 4.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 21.1   | 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°    | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 |
| 2.5°  | 2267.9 | 2272.9 | 2270.8 | 2269.6 | 2273.3 | 2267.4 | 2255.3 | 2251.4 | 2245.6 | 2231.6 | 2208.0 |
| 5°    | 2182.7 | 2198.0 | 2197.1 | 2208.5 | 2227.3 | 2232.5 | 2227.0 | 2227.8 | 2216.8 | 2199.6 | 2160.5 |
| 7.5°  | 2035.6 | 2042.0 | 2045.4 | 2070.2 | 2104.8 | 2132.7 | 2156.2 | 2163.7 | 2158.7 | 2144.0 | 2093.4 |
| 10°   | 1884.0 | 1889.1 | 1897.1 | 1926.1 | 1970.1 | 2008.3 | 2052.9 | 2078.7 | 2089.6 | 2087.1 | 2030.7 |
| 12.5° | 1753.9 | 1758.9 | 1769.4 | 1802.3 | 1854.6 | 1901.7 | 1966.6 | 1998.6 | 2024.8 | 2040.4 | 1979.7 |
| 15°   | 1637.3 | 1648.1 | 1658.2 | 1696.2 | 1754.7 | 1816.6 | 1889.9 | 1930.4 | 1970.8 | 2005.8 | 1934.6 |
| 17.5° | 1546.2 | 1557.1 | 1563.1 | 1597.5 | 1659.9 | 1735.7 | 1821.8 | 1869.4 | 1919.9 | 1977.2 | 1889.9 |
| 20°   | 1493.5 | 1498.6 | 1496.0 | 1515.4 | 1571.5 | 1652.0 | 1753.9 | 1809.0 | 1870.1 | 1950.2 | 1845.3 |
| 22.5° | 1478.8 | 1479.1 | 1469.8 | 1467.8 | 1504.0 | 1571.9 | 1681.4 | 1748.5 | 1823.4 | 1932.6 | 1806.9 |
| 25°   | 1514.5 | 1513.4 | 1488.0 | 1467.4 | 1471.2 | 1510.8 | 1611.5 | 1689.4 | 1784.3 | 1928.8 | 1777.4 |
| 27.5° | 1594.2 | 1597.9 | 1560.4 | 1521.6 | 1483.5 | 1482.2 | 1558.4 | 1640.6 | 1752.1 | 1946.0 | 1764.8 |
| 30°   | 1705.8 | 1712.2 | 1672.1 | 1622.9 | 1550.8 | 1491.4 | 1537.8 | 1611.5 | 1732.4 | 1981.8 | 1762.7 |
| 32.5° | 1828.1 | 1834.8 | 1804.4 | 1752.7 | 1658.2 | 1548.7 | 1552.1 | 1614.1 | 1731.6 | 2032.0 | 1777.0 |
| 35°   | 1958.1 | 1965.9 | 1950.2 | 1906.5 | 1801.6 | 1654.5 | 1606.9 | 1654.9 | 1758.9 | 2108.6 | 1815.4 |
| 37.5° | 2103.6 | 2115.4 | 2119.6 | 2077.9 | 1965.9 | 1793.8 | 1696.5 | 1732.4 | 1820.9 | 2215.2 | 1885.7 |
| 40°   | 2313.0 | 2329.3 | 2328.0 | 2268.3 | 2154.0 | 1982.2 | 1835.1 | 1844.5 | 1917.3 | 2357.6 | 1998.2 |
| 42.5° | 2714.0 | 2717.5 | 2612.5 | 2482.2 | 2361.4 | 2180.2 | 1998.6 | 1991.1 | 2050.6 | 2537.9 | 2163.7 |
| 45°   | 3224.1 | 3210.4 | 2977.0 | 2725.4 | 2578.0 | 2407.7 | 2211.4 | 2174.3 | 2219.4 | 2757.8 | 2371.0 |
| 47.5° | 3647.6 | 3615.6 | 3320.7 | 2973.5 | 2807.2 | 2655.0 | 2461.3 | 2396.4 | 2421.2 | 3007.3 | 2639.0 |
| 50°   | 3794.6 | 3770.6 | 3526.2 | 3180.0 | 3024.1 | 2956.7 | 2768.8 | 2676.9 | 2683.6 | 3304.7 | 2952.9 |
| 52.5° | 3763.1 | 3759.6 | 3596.6 | 3316.1 | 3227.2 | 3273.6 | 3204.4 | 3080.1 | 3014.4 | 3635.0 | 3291.6 |
| 55°   | 3688.5 | 3695.6 | 3636.7 | 3474.5 | 3459.4 | 3579.3 | 3773.6 | 3681.8 | 3477.3 | 3968.3 | 3641.6 |
| 57.5° | 3429.4 | 3448.0 | 3577.7 | 3673.8 | 3833.0 | 4011.7 | 4231.9 | 4205.9 | 3975.8 | 4328.5 | 4058.0 |
| 60°   | 2762.8 | 2805.9 | 3153.9 | 3635.0 | 4217.6 | 4776.3 | 4874.8 | 4814.1 | 4489.8 | 4775.4 | 4607.8 |
| 62.5° | 1935.8 | 1980.6 | 2394.3 | 3147.1 | 4154.4 | 5640.0 | 6024.2 | 5762.5 | 5227.9 | 5433.9 | 5319.4 |
| 65°   | 1036.5 | 1057.8 | 1373.9 | 2183.6 | 3507.3 | 5818.1 | 7703.9 | 7305.7 | 6396.7 | 6245.7 | 5928.2 |
| 67.5° | 571.7  | 583.4  | 704.5  | 1102.5 | 2246.4 | 5123.5 | 8773.9 | 9074.8 | 7857.3 | 6786.2 | 5817.3 |
| 69°   | 517.0  | 527.8  | 607.1  | 835.1  | 1503.3 | 4236.1 | 8669.5 | 9541.2 | 8497.5 | 6732.7 | 5407.7 |
| 70°   | 505.6  | 515.6  | 586.9  | 769.7  | 1216.8 | 3491.7 | 8319.5 | 9422.0 | 8650.0 | 6541.1 | 5050.5 |
| 72.5° | 455.0  | 466.0  | 535.0  | 691.3  | 1039.8 | 1740.8 | 6590.0 | 7966.3 | 7853.4 | 5671.4 | 3830.9 |
| 75°   | 424.3  | 434.4  | 551.5  | 677.1  | 995.5  | 1101.7 | 4344.5 | 5871.2 | 5773.0 | 3967.4 | 2065.7 |
| 77.5° | 181.5  | 180.6  | 255.7  | 572.9  | 1010.2 | 1066.7 | 2334.4 | 3667.8 | 3346.4 | 1695.7 | 593.2  |
| 80°   | 121.4  | 119.3  | 121.4  | 168.5  | 926.4  | 1072.7 | 1223.0 | 1861.7 | 1406.2 | 432.3  | 292.4  |
| 82.5° | 104.6  | 102.8  | 106.5  | 102.8  | 325.6  | 1224.3 | 1039.8 | 990.0  | 668.6  | 245.6  | 144.9  |
| 85°   | 70.3   | 67.5   | 91.8   | 92.3   | 153.8  | 1087.8 | 1171.2 | 836.3  | 541.0  | 145.7  | 71.7   |
| 87.5° | 33.6   | 32.9   | 53.4   | 65.2   | 90.2   | 442.0  | 1314.0 | 857.0  | 545.6  | 74.6   | 34.1   |
| 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°    | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 |
| 2.5°  | 2200.8 | 2183.6 | 2166.7 | 2146.5 | 2125.5 | 2101.9 | 2090.0 | 2078.3 | 2075.4 | 2071.9 | 2060.2 |
| 5°    | 2140.2 | 2115.8 | 2073.6 | 2027.3 | 1978.4 | 1930.7 | 1894.5 | 1871.9 | 1854.6 | 1845.7 | 1830.1 |
| 7.5°  | 2061.8 | 2026.0 | 1952.2 | 1872.2 | 1790.1 | 1715.1 | 1650.2 | 1609.4 | 1570.5 | 1552.5 | 1531.8 |
| 10°   | 1987.3 | 1933.8 | 1819.2 | 1701.2 | 1583.3 | 1469.8 | 1363.3 | 1287.9 | 1220.9 | 1183.4 | 1156.8 |
| 12.5° | 1923.2 | 1849.9 | 1691.1 | 1531.4 | 1369.6 | 1208.3 | 1048.6 | 923.1  | 818.1  | 763.0  | 734.8  |
| 15°   | 1860.8 | 1772.4 | 1569.3 | 1366.7 | 1159.1 | 939.4  | 729.8  | 587.3  | 500.4  | 466.0  | 454.2  |
| 17.5° | 1804.4 | 1691.1 | 1447.2 | 1200.8 | 941.7  | 676.2  | 490.4  | 412.1  | 378.7  | 367.3  | 363.5  |
| 20°   | 1743.3 | 1609.0 | 1320.4 | 1027.1 | 715.0  | 472.7  | 382.9  | 348.5  | 335.0  | 331.6  | 329.9  |
| 22.5° | 1684.3 | 1528.0 | 1199.0 | 841.4  | 513.7  | 364.8  | 329.0  | 314.6  | 312.6  | 315.6  | 315.6  |
| 25°   | 1634.2 | 1455.7 | 1067.9 | 647.0  | 377.1  | 307.1  | 294.5  | 291.1  | 299.1  | 310.1  | 312.3  |
| 27.5° | 1596.7 | 1396.1 | 928.6  | 477.8  | 300.5  | 267.1  | 266.6  | 272.1  | 291.9  | 313.0  | 317.2  |
| 30°   | 1571.0 | 1339.7 | 779.4  | 344.6  | 252.0  | 235.0  | 241.9  | 253.6  | 282.6  | 312.6  | 320.6  |
| 32.5° | 1558.0 | 1298.1 | 624.0  | 266.6  | 215.8  | 206.4  | 217.7  | 232.1  | 260.8  | 288.5  | 299.1  |
| 35°   | 1568.1 | 1267.2 | 477.3  | 222.4  | 190.4  | 183.3  | 195.0  | 208.9  | 225.8  | 237.6  | 245.6  |
| 37.5° | 1606.0 | 1255.0 | 360.2  | 199.2  | 173.2  | 166.5  | 175.7  | 183.8  | 190.4  | 193.9  | 197.5  |
| 40°   | 1687.7 | 1268.0 | 288.5  | 187.4  | 163.4  | 155.0  | 158.8  | 161.8  | 165.9  | 169.4  | 171.0  |
| 42.5° | 1808.2 | 1307.4 | 258.7  | 182.8  | 158.5  | 146.2  | 145.3  | 146.7  | 152.2  | 158.5  | 159.7  |
| 45°   | 1976.7 | 1376.5 | 256.6  | 185.8  | 155.9  | 139.1  | 135.3  | 136.9  | 145.3  | 155.0  | 156.8  |
| 47.5° | 2192.0 | 1481.8 | 273.4  | 194.7  | 158.0  | 135.3  | 128.9  | 131.1  | 141.6  | 154.6  | 156.8  |
| 50°   | 2452.8 | 1628.7 | 301.7  | 207.7  | 167.3  | 136.1  | 126.8  | 128.1  | 139.1  | 153.3  | 155.4  |
| 52.5° | 2760.9 | 1837.4 | 332.5  | 220.4  | 177.0  | 141.6  | 128.5  | 125.6  | 135.6  | 148.3  | 150.8  |
| 55°   | 3103.3 | 2104.8 | 364.1  | 231.8  | 181.9  | 148.3  | 132.0  | 122.2  | 129.4  | 139.9  | 142.0  |
| 57.5° | 3523.7 | 2479.0 | 418.8  | 242.6  | 185.4  | 152.9  | 135.3  | 118.8  | 121.4  | 128.9  | 130.7  |
| 60°   | 4092.9 | 3008.1 | 515.3  | 260.8  | 193.0  | 154.6  | 134.8  | 115.8  | 113.4  | 117.6  | 118.3  |
| 62.5° | 4775.0 | 3582.7 | 595.8  | 283.5  | 205.6  | 155.9  | 132.3  | 113.7  | 106.5  | 106.5  | 107.4  |
| 65°   | 5179.8 | 3736.5 | 551.1  | 302.5  | 216.1  | 154.6  | 129.4  | 111.7  | 101.5  | 96.8   | 97.3   |
| 67.5° | 4836.6 | 3286.1 | 472.2  | 306.3  | 215.8  | 148.7  | 124.8  | 107.8  | 96.5   | 89.3   | 88.9   |
| 69°   | 4406.4 | 2835.3 | 436.8  | 296.3  | 205.6  | 141.2  | 118.8  | 103.7  | 92.6   | 85.1   | 84.7   |
| 70°   | 4059.6 | 2560.2 | 413.7  | 285.2  | 194.7  | 135.6  | 114.2  | 99.8   | 89.7   | 82.6   | 81.7   |
| 72.5° | 2951.7 | 1677.7 | 353.5  | 245.1  | 160.4  | 113.7  | 98.5   | 87.7   | 80.0   | 75.8   | 75.0   |
| 75°   | 1474.9 | 800.0  | 286.9  | 198.9  | 123.0  | 91.0   | 80.8   | 73.3   | 69.4   | 68.7   | 68.2   |
| 77.5° | 484.5  | 366.5  | 205.2  | 148.3  | 91.4   | 71.1   | 65.2   | 59.8   | 59.0   | 61.5   | 60.6   |
| 80°   | 266.3  | 213.2  | 130.2  | 98.2   | 62.3   | 52.2   | 51.5   | 48.5   | 49.8   | 53.9   | 53.1   |
| 82.5° | 135.6  | 110.9  | 80.5   | 59.0   | 42.1   | 37.5   | 40.9   | 39.2   | 40.9   | 44.6   | 44.2   |
| 85°   | 67.1   | 60.6   | 50.9   | 35.8   | 27.8   | 24.1   | 29.0   | 30.4   | 31.3   | 34.1   | 34.1   |
| 87.5° | 38.7   | 35.8   | 26.9   | 16.9   | 14.0   | 12.7   | 16.9   | 16.3   | 19.4   | 21.1   | 20.7   |
| 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)