

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: P452198

Luminaire Tested: **GLAN-SA3A-827-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3A-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10017 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 93  
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

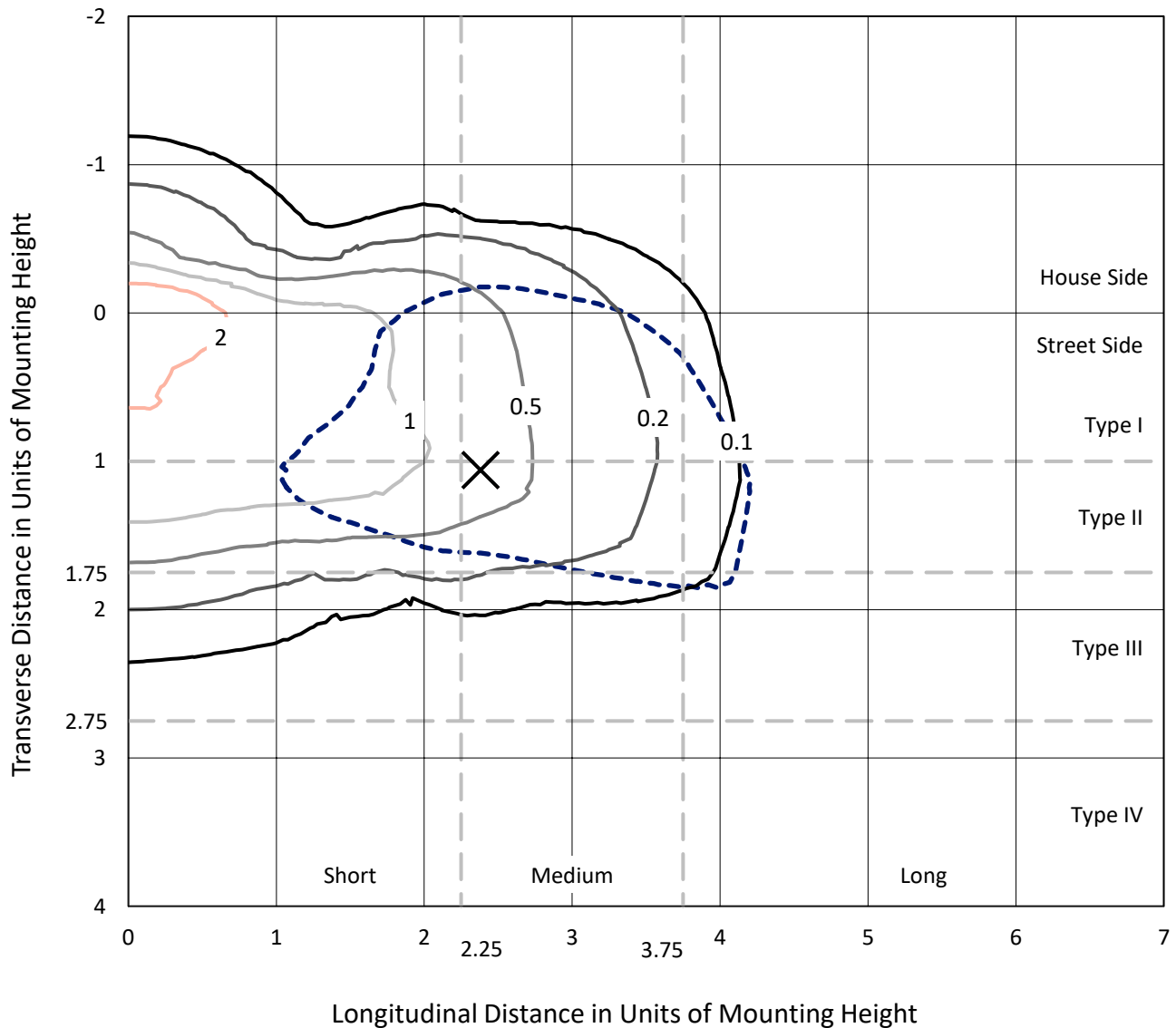


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

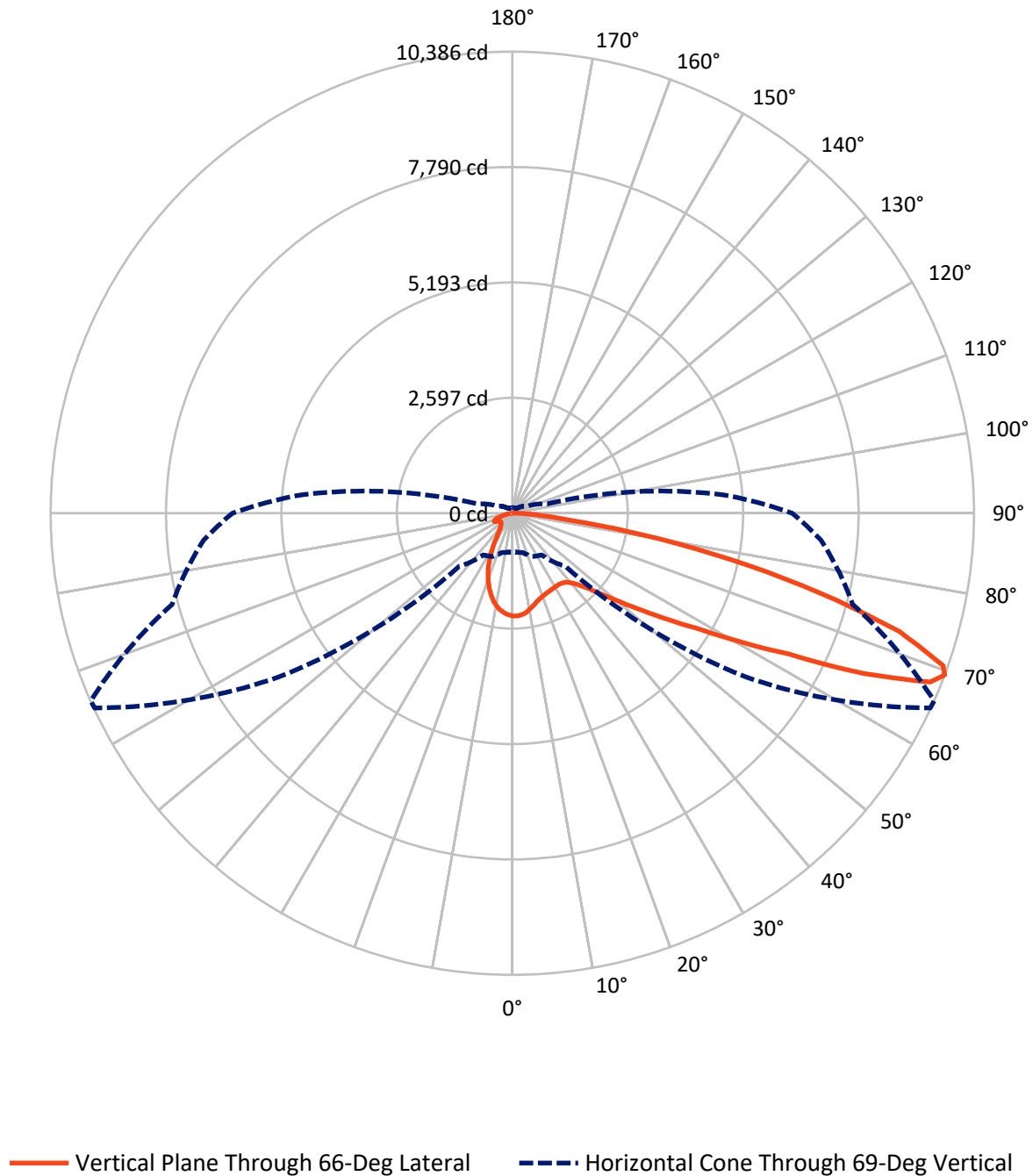


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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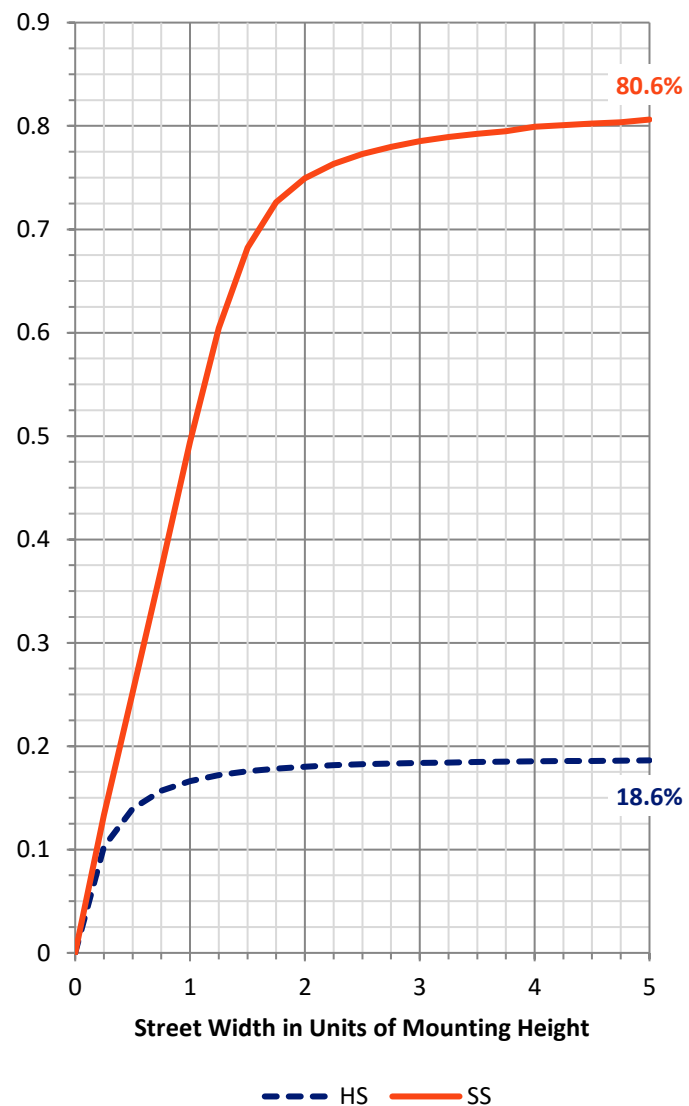
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1883.8   | 0.0    | 1883.8  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 8133.2   | 0.0    | 8133.2  |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 10017.0  | 0.0    | 10017.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 200.9   | 2.0       |
| 10°-20°   | 476.5   | 4.8       |
| 20°-30°   | 648.6   | 6.5       |
| 30°-40°   | 871.6   | 8.7       |
| 40°-50°   | 1301.5  | 13.0      |
| 50°-60°   | 2070.2  | 20.7      |
| 60°-70°   | 2546.3  | 25.4      |
| 70°-80°   | 1656.7  | 16.5      |
| 80°-90°   | 244.7   | 2.4       |
| 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°    | 10017.0 | 100.0     |
| 0°-180°   | 10017.0 | 100.0     |

**Coefficient of Utilization**



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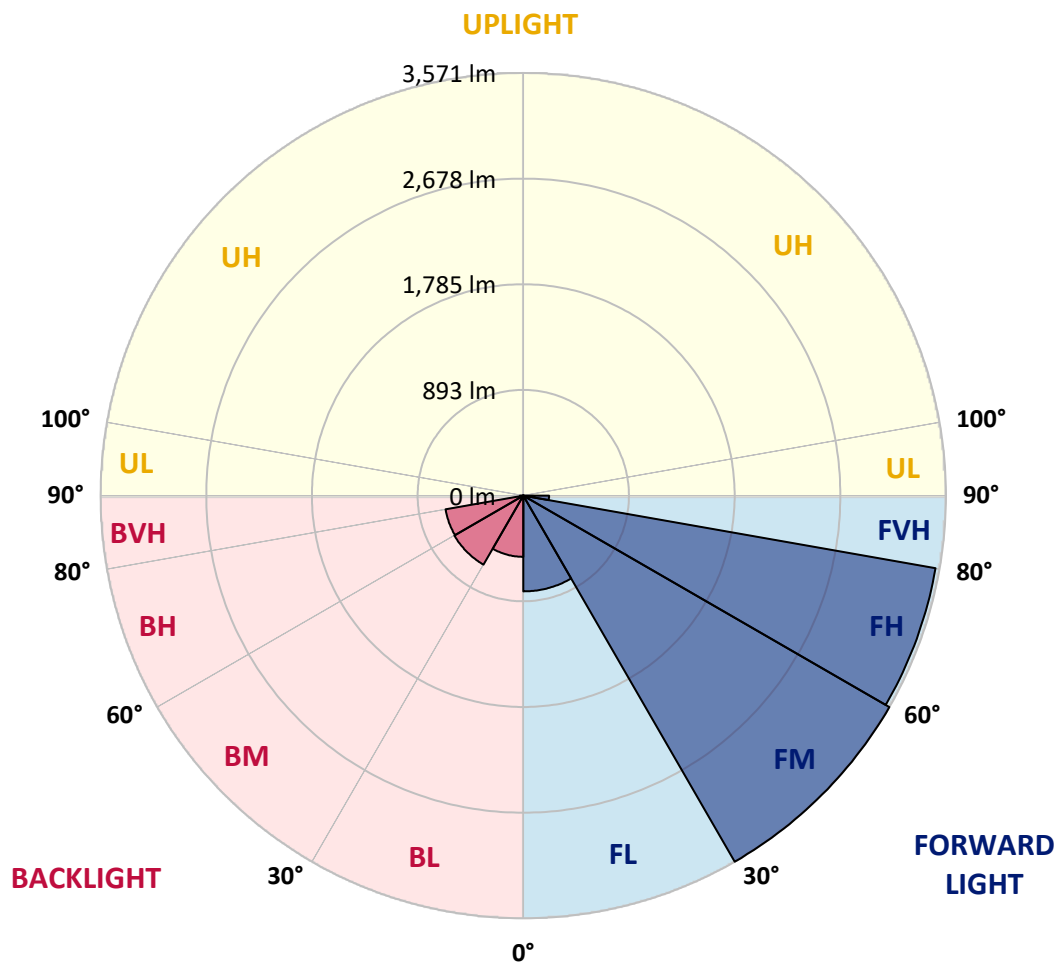
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 808.9  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 3570.8 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 3536.1 | 35.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 217.5  | 2.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 517.1  | 5.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 672.6  | 6.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 667.0  | 6.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 27.1   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 66°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0°    | 2313.2 | 2313.2 | 2313.2 | 2313.2 | 2313.2 | 2313.2 | 2313.2 | 2313.2  | 2313.2  | 2313.2 | 2313.2 |
| 2.5°  | 2232.2 | 2241.1 | 2251.1 | 2262.2 | 2283.2 | 2294.9 | 2303.2 | 2312.6  | 2313.8  | 2318.8 | 2314.9 |
| 5°    | 2067.5 | 2078.0 | 2093.0 | 2114.1 | 2145.7 | 2195.0 | 2246.1 | 2287.7  | 2292.7  | 2316.0 | 2322.6 |
| 7.5°  | 1929.9 | 1936.0 | 1948.2 | 1982.0 | 2027.0 | 2081.9 | 2156.2 | 2240.5  | 2252.7  | 2308.2 | 2327.6 |
| 10°   | 1817.8 | 1823.9 | 1838.4 | 1873.3 | 1917.7 | 1986.5 | 2068.0 | 2179.0  | 2188.9  | 2284.4 | 2328.7 |
| 12.5° | 1734.1 | 1739.6 | 1755.2 | 1789.5 | 1840.6 | 1904.9 | 1994.8 | 2112.4  | 2126.8  | 2252.7 | 2318.2 |
| 15°   | 1670.3 | 1680.8 | 1693.6 | 1721.9 | 1775.7 | 1837.8 | 1924.9 | 2051.4  | 2063.0  | 2219.5 | 2311.0 |
| 17.5° | 1643.1 | 1648.1 | 1657.0 | 1683.0 | 1722.4 | 1783.4 | 1871.1 | 2003.7  | 2017.5  | 2196.2 | 2309.3 |
| 20°   | 1644.2 | 1649.2 | 1650.9 | 1665.3 | 1693.6 | 1746.3 | 1832.8 | 1965.9  | 1982.6  | 2175.6 | 2312.1 |
| 22.5° | 1681.9 | 1682.5 | 1676.4 | 1671.4 | 1682.5 | 1726.3 | 1805.6 | 1937.7  | 1957.1  | 2166.8 | 2314.3 |
| 25°   | 1740.2 | 1750.2 | 1741.3 | 1718.0 | 1697.5 | 1718.5 | 1795.1 | 1922.1  | 1940.4  | 2154.0 | 2311.5 |
| 27.5° | 1834.5 | 1836.1 | 1828.9 | 1797.3 | 1744.1 | 1728.5 | 1790.7 | 1910.5  | 1926.0  | 2144.6 | 2297.7 |
| 30°   | 1961.0 | 1956.0 | 1949.3 | 1914.4 | 1830.6 | 1766.8 | 1800.1 | 1899.9  | 1916.0  | 2130.7 | 2281.0 |
| 32.5° | 2089.1 | 2104.6 | 2098.5 | 2057.5 | 1948.7 | 1841.1 | 1830.6 | 1898.8  | 1912.1  | 2120.2 | 2262.7 |
| 35°   | 2225.0 | 2232.2 | 2261.1 | 2240.0 | 2128.5 | 1961.5 | 1887.7 | 1916.0  | 1926.6  | 2120.7 | 2250.0 |
| 37.5° | 2331.5 | 2350.9 | 2418.6 | 2436.9 | 2332.1 | 2120.7 | 1980.4 | 1964.8  | 1969.3  | 2147.9 | 2255.0 |
| 40°   | 2460.2 | 2493.5 | 2580.6 | 2655.5 | 2586.7 | 2327.6 | 2137.9 | 2055.3  | 2060.8  | 2213.4 | 2287.7 |
| 42.5° | 2623.3 | 2646.6 | 2763.6 | 2865.2 | 2854.1 | 2601.1 | 2328.7 | 2203.4  | 2206.1  | 2343.7 | 2379.2 |
| 45°   | 2814.1 | 2847.4 | 2978.9 | 3131.4 | 3157.5 | 2910.6 | 2604.4 | 2427.5  | 2425.8  | 2546.2 | 2550.1 |
| 47.5° | 3058.2 | 3078.7 | 3209.1 | 3375.5 | 3480.9 | 3299.5 | 2938.9 | 2749.2  | 2731.5  | 2841.3 | 2809.7 |
| 50°   | 3282.9 | 3315.0 | 3413.8 | 3595.7 | 3858.1 | 3754.9 | 3378.8 | 3166.4  | 3124.8  | 3227.4 | 3174.1 |
| 52.5° | 3377.2 | 3411.0 | 3494.2 | 3720.0 | 4181.5 | 4344.1 | 3937.4 | 3664.0  | 3594.6  | 3673.4 | 3654.0 |
| 55°   | 3213.5 | 3257.3 | 3335.0 | 3609.6 | 4323.5 | 5023.6 | 4690.8 | 4239.2  | 4188.7  | 4154.9 | 4160.4 |
| 57.5° | 2773.6 | 2815.2 | 2920.1 | 3223.0 | 4153.8 | 5516.7 | 5766.4 | 4978.7  | 4870.5  | 4714.6 | 4741.2 |
| 60°   | 2111.3 | 2137.4 | 2191.7 | 2527.3 | 3650.6 | 5644.9 | 6987.9 | 5913.4  | 5844.6  | 5272.1 | 5291.0 |
| 62.5° | 1499.4 | 1528.8 | 1566.5 | 1734.1 | 2672.7 | 5283.8 | 7944.2 | 7218.6  | 6972.9  | 5849.6 | 5831.3 |
| 65°   | 1217.6 | 1197.7 | 1243.1 | 1321.4 | 1568.2 | 4095.0 | 8159.5 | 9030.4  | 8692.0  | 6610.1 | 6356.0 |
| 67.5° | 1001.3 | 980.2  | 1025.1 | 1164.4 | 1192.7 | 2377.0 | 7383.9 | 10206.4 | 10138.7 | 7437.2 | 6889.1 |
| 69°   | 886.5  | 875.4  | 914.7  | 1073.4 | 1145.0 | 1688.0 | 6432.6 | 10370.0 | 10386.1 | 7924.8 | 6971.2 |
| 70°   | 798.8  | 803.2  | 841.5  | 1027.4 | 1123.3 | 1391.8 | 5497.9 | 10144.3 | 10280.7 | 8168.3 | 6882.5 |
| 72.5° | 588.0  | 597.4  | 650.7  | 850.9  | 1102.8 | 1181.0 | 3271.8 | 8860.6  | 9101.9  | 8182.7 | 6296.1 |
| 75°   | 411.1  | 406.6  | 453.8  | 640.7  | 1041.8 | 1170.5 | 1921.6 | 6852.5  | 7126.0  | 7072.7 | 5290.4 |
| 77.5° | 269.0  | 276.3  | 314.0  | 452.7  | 876.5  | 1161.6 | 1252.6 | 4861.6  | 5039.1  | 4730.1 | 3129.2 |
| 80°   | 189.7  | 189.2  | 210.2  | 309.0  | 650.1  | 1116.1 | 1025.7 | 3064.3  | 3019.4  | 1858.9 | 928.1  |
| 82.5° | 108.7  | 116.5  | 140.9  | 217.5  | 434.9  | 982.4  | 943.6  | 1465.6  | 1338.0  | 529.8  | 313.4  |
| 85°   | 60.5   | 63.2   | 83.8   | 131.5  | 254.1  | 740.0  | 823.8  | 666.8   | 629.1   | 221.3  | 134.8  |
| 87.5° | 19.4   | 21.1   | 34.9   | 66.6   | 115.4  | 349.5  | 466.5  | 307.9   | 284.0   | 79.9   | 54.4   |
| 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°    | 2313.2 | 2313.2 | 2313.2 | 2313.2 | 2313.2 | 2313.2 | 2313.2 | 2313.2 | 2313.2 | 2313.2 | 2313.2 |
| 2.5°  | 2316.5 | 2323.2 | 2305.4 | 2288.2 | 2272.7 | 2251.1 | 2231.7 | 2215.6 | 2204.5 | 2202.8 | 2197.3 |
| 5°    | 2324.3 | 2324.9 | 2291.0 | 2245.5 | 2201.1 | 2152.3 | 2101.9 | 2065.8 | 2032.0 | 2013.1 | 2003.7 |
| 7.5°  | 2329.8 | 2324.9 | 2263.8 | 2190.1 | 2104.6 | 2015.9 | 1927.1 | 1856.1 | 1801.2 | 1779.6 | 1787.9 |
| 10°   | 2327.6 | 2312.1 | 2222.8 | 2104.6 | 1980.4 | 1847.8 | 1720.2 | 1620.4 | 1528.8 | 1481.7 | 1482.8 |
| 12.5° | 2315.4 | 2289.9 | 2161.8 | 2008.7 | 1826.2 | 1648.6 | 1453.4 | 1318.6 | 1212.6 | 1149.9 | 1130.5 |
| 15°   | 2304.9 | 2260.5 | 2090.2 | 1878.3 | 1651.4 | 1397.9 | 1159.9 | 993.5  | 904.8  | 855.4  | 854.8  |
| 17.5° | 2293.8 | 2232.2 | 2012.0 | 1740.2 | 1450.6 | 1124.4 | 874.8  | 747.8  | 706.2  | 711.2  | 702.8  |
| 20°   | 2282.1 | 2198.9 | 1930.4 | 1586.5 | 1206.0 | 838.7  | 655.1  | 603.5  | 615.2  | 637.9  | 641.3  |
| 22.5° | 2268.8 | 2163.4 | 1842.8 | 1417.3 | 948.6  | 631.3  | 531.4  | 523.7  | 553.6  | 589.1  | 594.1  |
| 25°   | 2248.3 | 2119.0 | 1732.4 | 1240.4 | 731.7  | 508.7  | 465.4  | 471.0  | 500.4  | 530.3  | 533.6  |
| 27.5° | 2219.5 | 2064.1 | 1620.9 | 1019.6 | 549.7  | 436.6  | 425.5  | 432.7  | 447.1  | 465.4  | 469.9  |
| 30°   | 2180.6 | 2002.0 | 1492.8 | 828.8  | 440.5  | 400.5  | 396.1  | 400.0  | 408.3  | 416.0  | 418.3  |
| 32.5° | 2141.8 | 1942.1 | 1363.5 | 634.6  | 392.7  | 376.7  | 372.2  | 372.2  | 372.2  | 373.3  | 373.9  |
| 35°   | 2105.7 | 1885.5 | 1224.8 | 494.3  | 367.8  | 357.8  | 351.7  | 345.0  | 343.9  | 340.0  | 340.0  |
| 37.5° | 2085.8 | 1833.9 | 1077.3 | 413.8  | 349.5  | 342.3  | 333.9  | 322.9  | 316.7  | 317.3  | 316.2  |
| 40°   | 2089.6 | 1800.1 | 943.0  | 368.3  | 334.5  | 326.7  | 314.0  | 301.2  | 297.3  | 297.3  | 296.2  |
| 42.5° | 2133.5 | 1789.0 | 814.3  | 344.5  | 320.1  | 311.2  | 295.1  | 283.5  | 281.2  | 280.7  | 281.8  |
| 45°   | 2234.4 | 1816.2 | 699.0  | 329.0  | 307.9  | 294.6  | 278.5  | 267.9  | 265.7  | 265.7  | 265.2  |
| 47.5° | 2431.4 | 1904.4 | 616.3  | 319.0  | 299.0  | 281.8  | 265.2  | 254.6  | 250.7  | 249.6  | 249.6  |
| 50°   | 2737.6 | 2095.8 | 554.7  | 310.1  | 287.9  | 270.2  | 253.0  | 240.8  | 234.6  | 234.1  | 233.5  |
| 52.5° | 3163.0 | 2394.2 | 530.9  | 303.4  | 275.7  | 257.9  | 239.1  | 227.4  | 219.7  | 218.0  | 216.9  |
| 55°   | 3660.6 | 2810.8 | 563.6  | 298.4  | 262.9  | 244.1  | 224.7  | 212.5  | 205.2  | 201.9  | 201.4  |
| 57.5° | 4237.0 | 3311.2 | 687.9  | 291.8  | 251.3  | 229.1  | 210.2  | 198.0  | 190.3  | 186.4  | 185.3  |
| 60°   | 4754.5 | 3825.4 | 904.8  | 287.9  | 241.3  | 213.0  | 193.6  | 182.5  | 175.3  | 171.4  | 170.9  |
| 62.5° | 5323.1 | 4315.8 | 1163.8 | 298.4  | 236.9  | 197.5  | 178.1  | 168.1  | 162.0  | 158.1  | 158.1  |
| 65°   | 5930.6 | 4806.7 | 1335.2 | 333.9  | 243.5  | 185.3  | 161.4  | 153.1  | 147.6  | 144.8  | 144.2  |
| 67.5° | 6340.0 | 4976.4 | 1100.0 | 370.6  | 260.2  | 172.0  | 145.3  | 138.7  | 135.4  | 132.6  | 132.6  |
| 69°   | 6295.6 | 4761.8 | 811.6  | 380.0  | 265.2  | 165.3  | 136.5  | 131.5  | 127.0  | 125.9  | 124.8  |
| 70°   | 6155.2 | 4517.1 | 680.1  | 373.9  | 261.3  | 159.2  | 130.9  | 124.8  | 120.9  | 119.8  | 119.3  |
| 72.5° | 5482.3 | 3917.5 | 506.5  | 325.1  | 222.4  | 138.1  | 115.9  | 110.4  | 107.1  | 105.4  | 105.4  |
| 75°   | 4554.8 | 3201.9 | 395.5  | 258.5  | 174.2  | 116.5  | 99.3   | 94.9   | 92.1   | 91.0   | 90.4   |
| 77.5° | 2552.8 | 1787.9 | 284.0  | 202.5  | 132.0  | 94.3   | 83.2   | 79.3   | 76.6   | 75.4   | 75.4   |
| 80°   | 711.2  | 510.9  | 167.0  | 133.7  | 89.9   | 71.6   | 66.0   | 63.2   | 59.4   | 56.6   | 58.2   |
| 82.5° | 267.9  | 221.3  | 95.4   | 80.4   | 57.1   | 47.7   | 46.0   | 43.8   | 42.2   | 38.3   | 38.3   |
| 85°   | 130.4  | 107.6  | 61.0   | 42.7   | 31.6   | 25.0   | 23.9   | 22.7   | 21.6   | 18.9   | 19.4   |
| 87.5° | 44.9   | 47.7   | 26.6   | 15.5   | 9.4    | 6.1    | 5.0    | 2.8    | 2.8    | 2.8    | 2.8    |
| 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)