

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: P193720

Luminaire Tested: **GAN-AF-02-LED-U-SL3-8030-1200**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P193720  
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: GAN-AF-02-LED-U-SL3-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA 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: 10903 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 129  
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



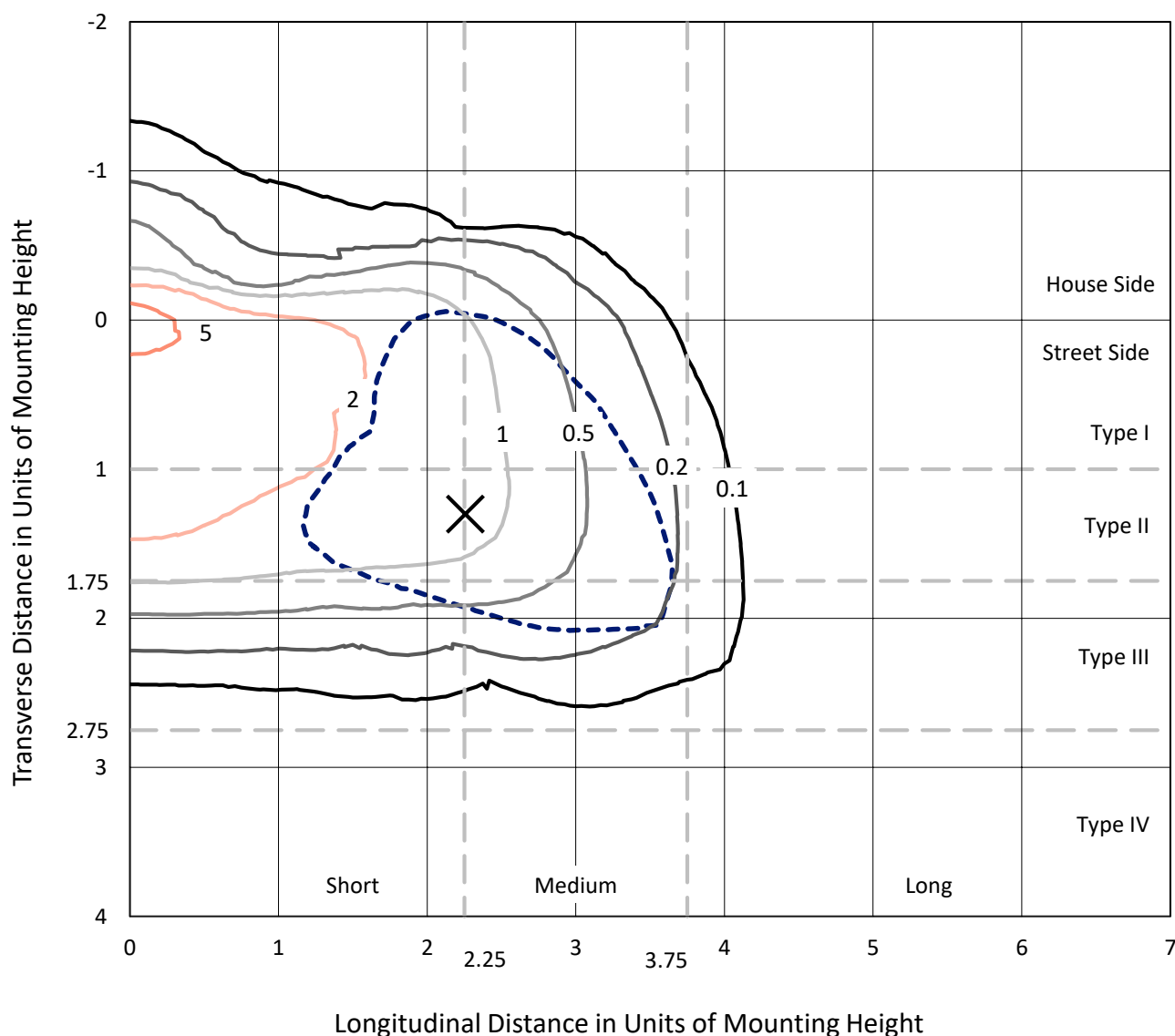
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

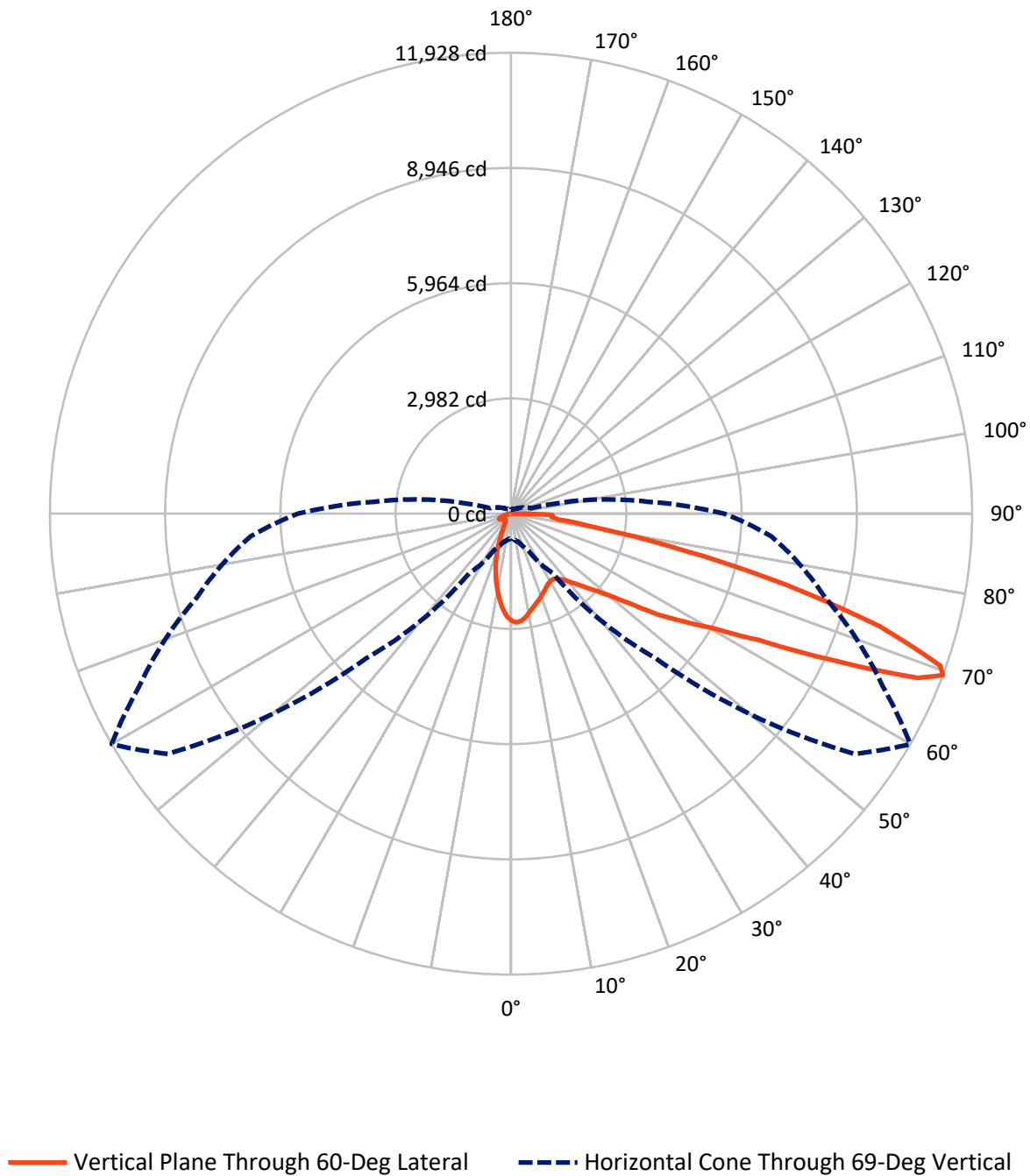


Based on 20 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1551.2   | 0.0    | 1551.2  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 9351.8   | 0.0    | 9351.8  |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 10903.0  | 0.0    | 10903.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 234.9   | 2.2       |
| 10°-20°   | 500.5   | 4.6       |
| 20°-30°   | 637.7   | 5.8       |
| 30°-40°   | 876.7   | 8.0       |
| 40°-50°   | 1422.5  | 13.0      |
| 50°-60°   | 2281.4  | 20.9      |
| 60°-70°   | 3036.3  | 27.8      |
| 70°-80°   | 1639.4  | 15.0      |
| 80°-90°   | 273.5   | 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°    | 10903.0 | 100.0     |
| 0°-180°   | 10903.0 | 100.0     |

**Coefficient of Utilization**



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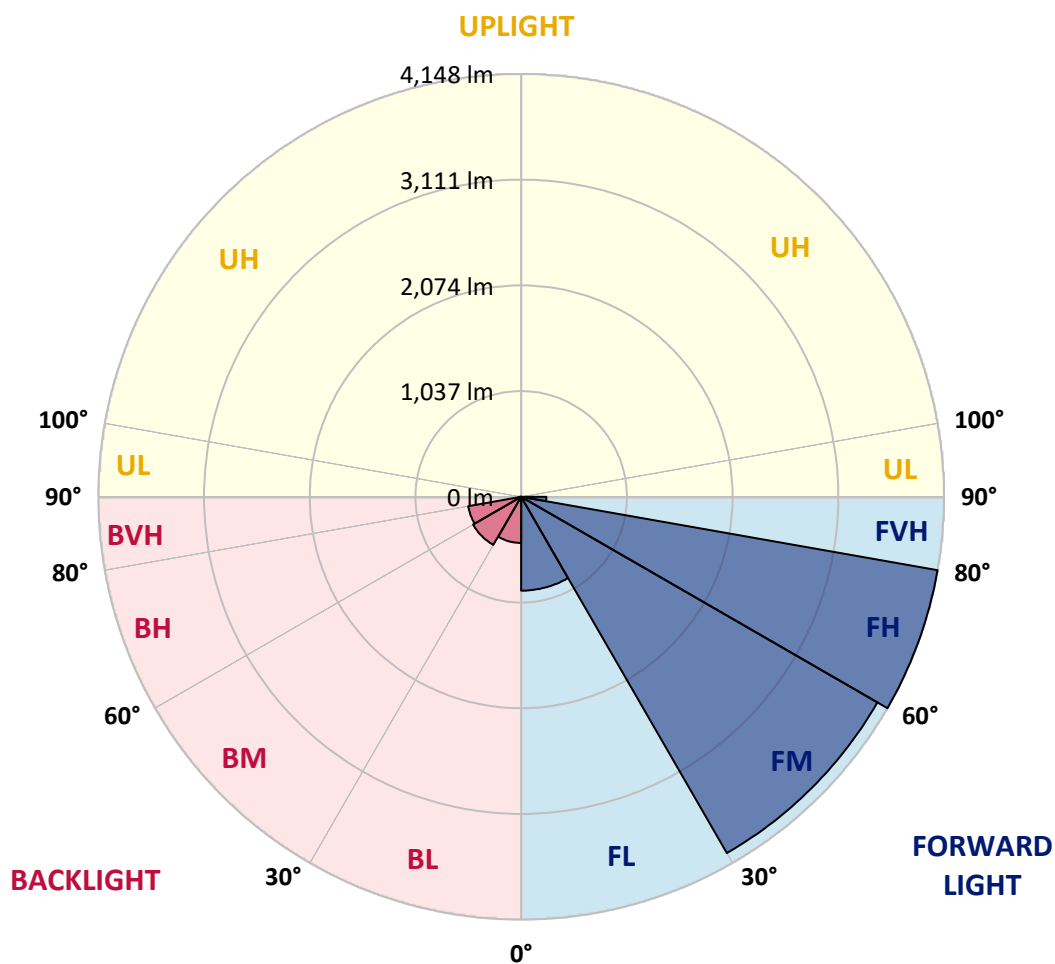
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 920.6  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 4035.7 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 4148.4 | 38.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 247.2  | 2.3       |                         |      | G3/500  |
| BL   | (0°-30°)    | 452.5  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 545.0  | 5.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 527.3  | 4.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 26.3   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 60°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0°    | 2778.2 | 2778.2 | 2778.2 | 2778.2 | 2778.2 | 2778.2 | 2778.2  | 2778.2  | 2778.2  | 2778.2 | 2778.2 |
| 2.5°  | 2835.1 | 2841.5 | 2838.8 | 2837.2 | 2842.0 | 2834.6 | 2819.3  | 2814.6  | 2807.2  | 2789.8 | 2760.3 |
| 5°    | 2728.7 | 2747.7 | 2746.6 | 2760.9 | 2784.6 | 2790.9 | 2784.0  | 2785.1  | 2771.4  | 2749.8 | 2700.8 |
| 7.5°  | 2544.9 | 2552.8 | 2557.0 | 2588.1 | 2631.3 | 2666.1 | 2695.6  | 2705.0  | 2698.7  | 2680.3 | 2617.1 |
| 10°   | 2355.3 | 2361.6 | 2371.7 | 2408.0 | 2462.8 | 2510.7 | 2566.5  | 2598.7  | 2612.3  | 2609.2 | 2538.6 |
| 12.5° | 2192.6 | 2198.9 | 2212.1 | 2253.1 | 2318.5 | 2377.4 | 2458.6  | 2498.6  | 2531.2  | 2550.7 | 2474.9 |
| 15°   | 2046.7 | 2060.4 | 2073.0 | 2120.4 | 2193.6 | 2271.1 | 2362.7  | 2413.3  | 2463.8  | 2507.5 | 2418.5 |
| 17.5° | 1932.9 | 1946.6 | 1954.0 | 1997.2 | 2075.1 | 2169.9 | 2277.4  | 2336.9  | 2400.1  | 2471.7 | 2362.7 |
| 20°   | 1867.1 | 1873.4 | 1870.2 | 1894.5 | 1964.5 | 2065.1 | 2192.6  | 2261.6  | 2337.9  | 2438.0 | 2306.9 |
| 22.5° | 1848.7 | 1849.2 | 1837.6 | 1835.0 | 1880.3 | 1965.1 | 2102.0  | 2185.7  | 2279.5  | 2415.9 | 2258.9 |
| 25°   | 1893.4 | 1891.8 | 1860.2 | 1834.4 | 1839.2 | 1888.7 | 2014.6  | 2112.0  | 2230.5  | 2411.2 | 2222.1 |
| 27.5° | 1993.0 | 1997.7 | 1950.8 | 1902.4 | 1854.4 | 1852.9 | 1948.2  | 2050.9  | 2190.5  | 2432.7 | 2206.3 |
| 30°   | 2132.5 | 2140.4 | 2090.4 | 2028.8 | 1938.7 | 1864.5 | 1922.4  | 2014.6  | 2165.7  | 2477.5 | 2203.6 |
| 32.5° | 2285.3 | 2293.7 | 2255.8 | 2191.0 | 2073.0 | 1936.1 | 1940.3  | 2017.7  | 2164.7  | 2540.2 | 2221.5 |
| 35°   | 2448.0 | 2457.5 | 2438.0 | 2383.2 | 2252.1 | 2068.3 | 2008.8  | 2068.8  | 2198.9  | 2636.0 | 2269.5 |
| 37.5° | 2629.7 | 2644.5 | 2649.7 | 2597.6 | 2457.5 | 2242.6 | 2121.0  | 2165.7  | 2276.3  | 2769.3 | 2357.4 |
| 40°   | 2891.5 | 2912.0 | 2910.4 | 2835.7 | 2692.9 | 2478.0 | 2294.2  | 2305.8  | 2396.9  | 2947.3 | 2498.1 |
| 42.5° | 3392.9 | 3397.1 | 3266.0 | 3103.2 | 2952.1 | 2725.6 | 2498.6  | 2489.1  | 2563.4  | 3172.7 | 2705.0 |
| 45°   | 4030.7 | 4013.3 | 3721.5 | 3407.1 | 3222.8 | 3010.0 | 2764.6  | 2718.2  | 2774.6  | 3447.7 | 2964.2 |
| 47.5° | 4560.0 | 4520.0 | 4151.3 | 3717.3 | 3509.3 | 3319.2 | 3076.9  | 2995.8  | 3026.8  | 3759.5 | 3299.1 |
| 50°   | 4743.8 | 4713.8 | 4408.3 | 3975.4 | 3780.5 | 3696.3 | 3461.4  | 3346.5  | 3355.0  | 4131.3 | 3691.5 |
| 52.5° | 4704.3 | 4700.1 | 4496.3 | 4145.5 | 4034.4 | 4092.3 | 4005.9  | 3850.6  | 3768.4  | 4544.2 | 4115.0 |
| 55°   | 4611.1 | 4620.1 | 4546.3 | 4343.6 | 4324.6 | 4474.7 | 4717.5  | 4602.7  | 4347.2  | 4960.8 | 4552.6 |
| 57.5° | 4287.2 | 4310.4 | 4472.6 | 4592.7 | 4791.8 | 5015.1 | 5290.5  | 5257.9  | 4970.3  | 5411.1 | 5073.0 |
| 60°   | 3454.0 | 3507.7 | 3942.7 | 4544.2 | 5272.6 | 5971.0 | 6094.2  | 6018.4  | 5612.9  | 5969.9 | 5760.3 |
| 62.5° | 2420.1 | 2475.9 | 2993.1 | 3934.3 | 5193.6 | 7050.7 | 7531.0  | 7204.0  | 6535.6  | 6793.2 | 6649.9 |
| 65°   | 1295.6 | 1322.5 | 1717.5 | 2729.8 | 4384.6 | 7273.5 | 9630.9  | 9133.2  | 7996.6  | 7808.1 | 7410.9 |
| 67.5° | 714.7  | 729.5  | 880.6  | 1378.3 | 2808.3 | 6405.0 | 10968.7 | 11344.7 | 9822.6  | 8483.8 | 7272.4 |
| 69°   | 646.2  | 659.9  | 758.9  | 1043.9 | 1879.2 | 5295.8 | 10838.1 | 11927.8 | 10623.2 | 8416.9 | 6760.5 |
| 70°   | 632.0  | 644.7  | 733.7  | 962.2  | 1521.1 | 4365.1 | 10400.4 | 11778.7 | 10813.8 | 8177.3 | 6313.9 |
| 72.5° | 568.8  | 582.5  | 668.9  | 864.3  | 1299.9 | 2176.3 | 8238.4  | 9959.0  | 9817.9  | 7090.2 | 4789.1 |
| 75°   | 530.4  | 543.0  | 689.4  | 846.4  | 1244.6 | 1377.3 | 5431.1  | 7339.8  | 7217.1  | 4959.8 | 2582.3 |
| 77.5° | 227.0  | 225.9  | 319.7  | 716.3  | 1263.0 | 1333.6 | 2918.3  | 4585.3  | 4183.4  | 2119.9 | 741.6  |
| 80°   | 151.7  | 149.1  | 151.7  | 210.7  | 1158.2 | 1340.9 | 1529.0  | 2327.4  | 1758.1  | 540.4  | 365.5  |
| 82.5° | 130.6  | 128.5  | 133.3  | 128.5  | 407.1  | 1530.5 | 1299.9  | 1237.7  | 835.8   | 307.1  | 181.2  |
| 85°   | 88.0   | 84.3   | 114.8  | 115.3  | 192.2  | 1359.9 | 1464.2  | 1045.5  | 676.3   | 182.2  | 89.5   |
| 87.5° | 42.1   | 41.1   | 66.9   | 81.6   | 112.7  | 552.5  | 1642.7  | 1071.3  | 682.1   | 93.2   | 42.7   |
| 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°    | 2778.2 | 2778.2 | 2778.2 | 2778.2 | 2778.2 | 2778.2 | 2778.2 | 2778.2 | 2778.2 | 2778.2 | 2778.2 |
| 2.5°  | 2751.4 | 2729.8 | 2708.7 | 2683.4 | 2657.1 | 2627.6 | 2612.9 | 2598.1 | 2594.4 | 2590.2 | 2575.5 |
| 5°    | 2675.5 | 2645.0 | 2592.3 | 2534.4 | 2473.3 | 2413.8 | 2368.5 | 2340.1 | 2318.5 | 2307.4 | 2287.9 |
| 7.5°  | 2577.6 | 2532.8 | 2440.6 | 2340.6 | 2237.9 | 2144.1 | 2063.0 | 2011.9 | 1963.5 | 1940.8 | 1915.0 |
| 10°   | 2484.4 | 2417.5 | 2274.2 | 2126.7 | 1979.3 | 1837.6 | 1704.3 | 1610.1 | 1526.3 | 1479.5 | 1446.3 |
| 12.5° | 2404.3 | 2312.7 | 2114.1 | 1914.5 | 1712.2 | 1510.5 | 1310.9 | 1154.0 | 1022.8 | 953.8  | 918.5  |
| 15°   | 2326.4 | 2215.8 | 1961.9 | 1708.6 | 1448.9 | 1174.5 | 912.2  | 734.2  | 625.7  | 582.5  | 567.8  |
| 17.5° | 2255.8 | 2114.1 | 1809.2 | 1501.0 | 1177.1 | 845.3  | 613.1  | 515.1  | 473.5  | 459.3  | 454.5  |
| 20°   | 2179.4 | 2011.4 | 1650.6 | 1284.1 | 893.8  | 590.9  | 478.8  | 435.6  | 418.7  | 414.5  | 412.4  |
| 22.5° | 2105.7 | 1910.3 | 1498.9 | 1051.8 | 642.0  | 456.1  | 411.3  | 393.4  | 390.8  | 394.5  | 394.5  |
| 25°   | 2043.0 | 1819.7 | 1335.1 | 809.0  | 471.4  | 384.0  | 368.2  | 363.9  | 373.9  | 387.6  | 390.3  |
| 27.5° | 1996.1 | 1745.4 | 1160.8 | 597.3  | 375.5  | 333.9  | 333.4  | 340.2  | 365.0  | 391.3  | 396.6  |
| 30°   | 1964.0 | 1674.9 | 974.4  | 430.8  | 315.0  | 293.9  | 302.3  | 317.1  | 353.4  | 390.8  | 400.8  |
| 32.5° | 1947.7 | 1622.7 | 780.0  | 333.4  | 269.7  | 258.1  | 272.3  | 290.2  | 326.0  | 360.8  | 373.9  |
| 35°   | 1960.3 | 1584.3 | 596.7  | 278.1  | 238.1  | 229.1  | 243.9  | 261.2  | 282.3  | 297.0  | 307.1  |
| 37.5° | 2007.7 | 1569.0 | 450.3  | 249.1  | 216.5  | 208.0  | 219.6  | 229.6  | 238.1  | 242.3  | 247.0  |
| 40°   | 2109.9 | 1585.3 | 360.8  | 234.4  | 204.4  | 193.8  | 198.6  | 202.2  | 207.5  | 211.7  | 213.8  |
| 42.5° | 2260.5 | 1634.3 | 323.4  | 228.6  | 198.0  | 182.8  | 181.7  | 183.3  | 190.1  | 198.0  | 199.6  |
| 45°   | 2471.2 | 1720.7 | 320.7  | 232.3  | 194.9  | 173.8  | 169.1  | 171.2  | 181.7  | 193.8  | 195.9  |
| 47.5° | 2740.3 | 1852.3 | 341.8  | 243.3  | 197.5  | 169.1  | 161.2  | 163.8  | 177.0  | 193.3  | 195.9  |
| 50°   | 3066.3 | 2036.2 | 377.1  | 259.7  | 209.1  | 170.1  | 158.5  | 160.1  | 173.8  | 191.7  | 194.3  |
| 52.5° | 3451.4 | 2296.9 | 415.6  | 275.5  | 221.2  | 177.0  | 160.6  | 157.0  | 169.6  | 185.4  | 188.6  |
| 55°   | 3879.5 | 2631.3 | 455.1  | 289.7  | 227.5  | 185.4  | 164.9  | 152.7  | 161.7  | 174.9  | 177.5  |
| 57.5° | 4405.2 | 3099.0 | 523.5  | 303.4  | 231.7  | 191.2  | 169.1  | 148.5  | 151.7  | 161.2  | 163.3  |
| 60°   | 5116.7 | 3760.5 | 644.1  | 326.0  | 241.2  | 193.3  | 168.5  | 144.8  | 141.7  | 146.9  | 148.0  |
| 62.5° | 5969.4 | 4478.9 | 744.7  | 354.5  | 257.0  | 194.9  | 165.4  | 142.2  | 133.3  | 133.3  | 134.3  |
| 65°   | 6475.6 | 4671.1 | 688.9  | 378.2  | 270.2  | 193.3  | 161.7  | 139.6  | 126.9  | 121.1  | 121.7  |
| 67.5° | 6046.3 | 4108.1 | 590.4  | 382.9  | 269.7  | 185.9  | 155.9  | 134.8  | 120.6  | 111.7  | 111.1  |
| 69°   | 5508.6 | 3544.6 | 546.2  | 370.3  | 257.0  | 176.4  | 148.5  | 129.6  | 115.9  | 106.4  | 105.9  |
| 70°   | 5075.1 | 3200.6 | 517.2  | 356.6  | 243.3  | 169.6  | 142.7  | 124.8  | 112.2  | 103.2  | 102.2  |
| 72.5° | 3689.9 | 2097.2 | 441.9  | 306.5  | 200.7  | 142.2  | 123.2  | 109.5  | 100.1  | 94.8   | 93.7   |
| 75°   | 1843.9 | 1000.2 | 358.7  | 248.6  | 153.8  | 113.8  | 101.1  | 91.6   | 86.9   | 85.8   | 85.3   |
| 77.5° | 605.7  | 458.2  | 256.5  | 185.4  | 114.3  | 89.0   | 81.6   | 74.8   | 73.7   | 76.9   | 75.8   |
| 80°   | 332.9  | 266.5  | 162.7  | 122.7  | 77.9   | 65.3   | 64.3   | 60.6   | 62.1   | 67.4   | 66.4   |
| 82.5° | 169.6  | 138.5  | 100.6  | 73.7   | 52.7   | 46.9   | 51.1   | 49.0   | 51.1   | 55.8   | 55.3   |
| 85°   | 83.7   | 75.8   | 63.7   | 44.8   | 34.8   | 30.0   | 36.3   | 37.9   | 39.0   | 42.7   | 42.7   |
| 87.5° | 48.5   | 44.8   | 33.7   | 21.1   | 17.4   | 15.8   | 21.1   | 20.5   | 24.2   | 26.3   | 25.8   |
| 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)