

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: P200282

Luminaire Tested: **GAW-AF-02-LED-E1-SL2-7050-1200**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200282  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAW-AF-02-LED-E1-SL2-7050-1200  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA 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: 13350 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-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



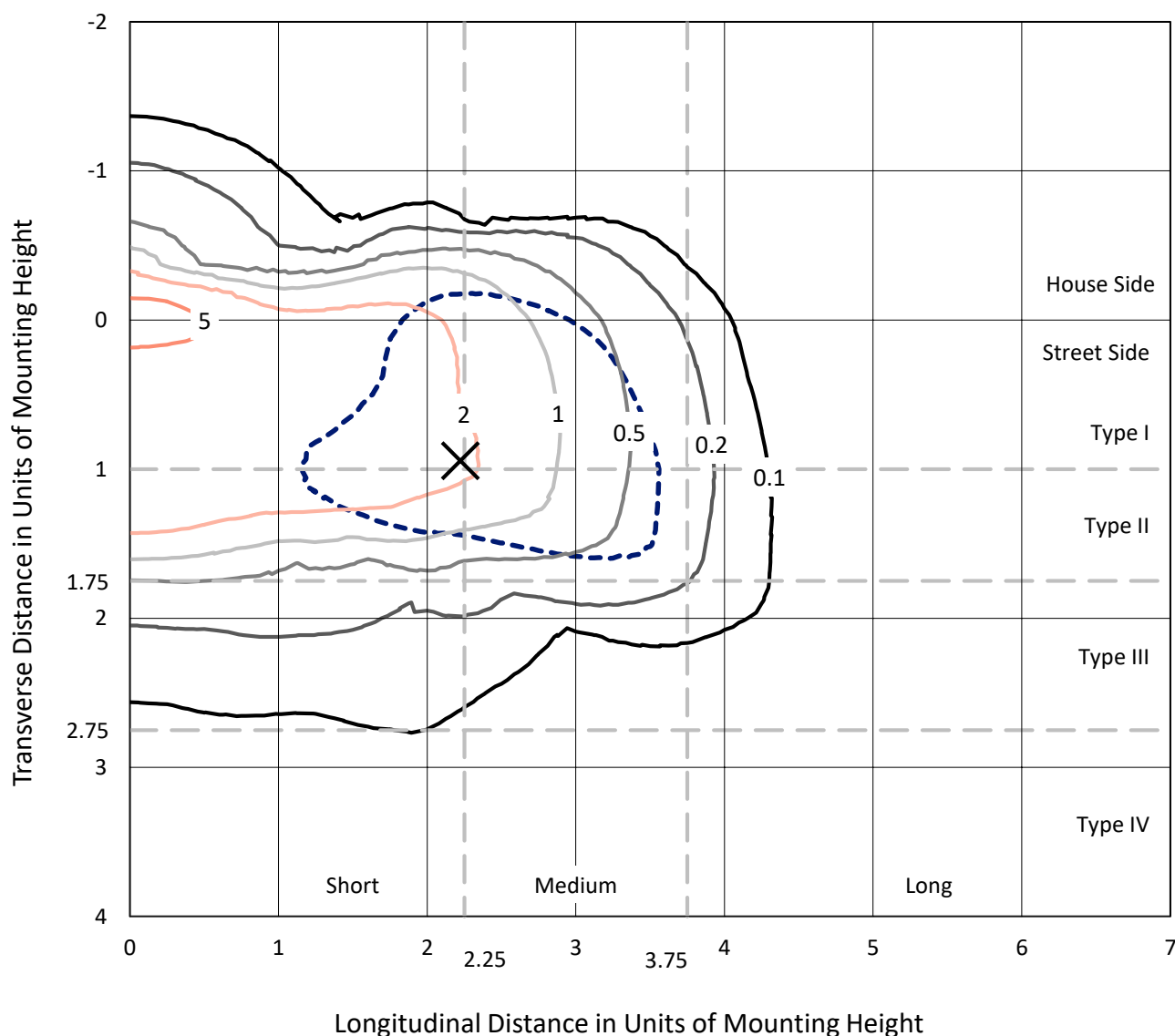
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

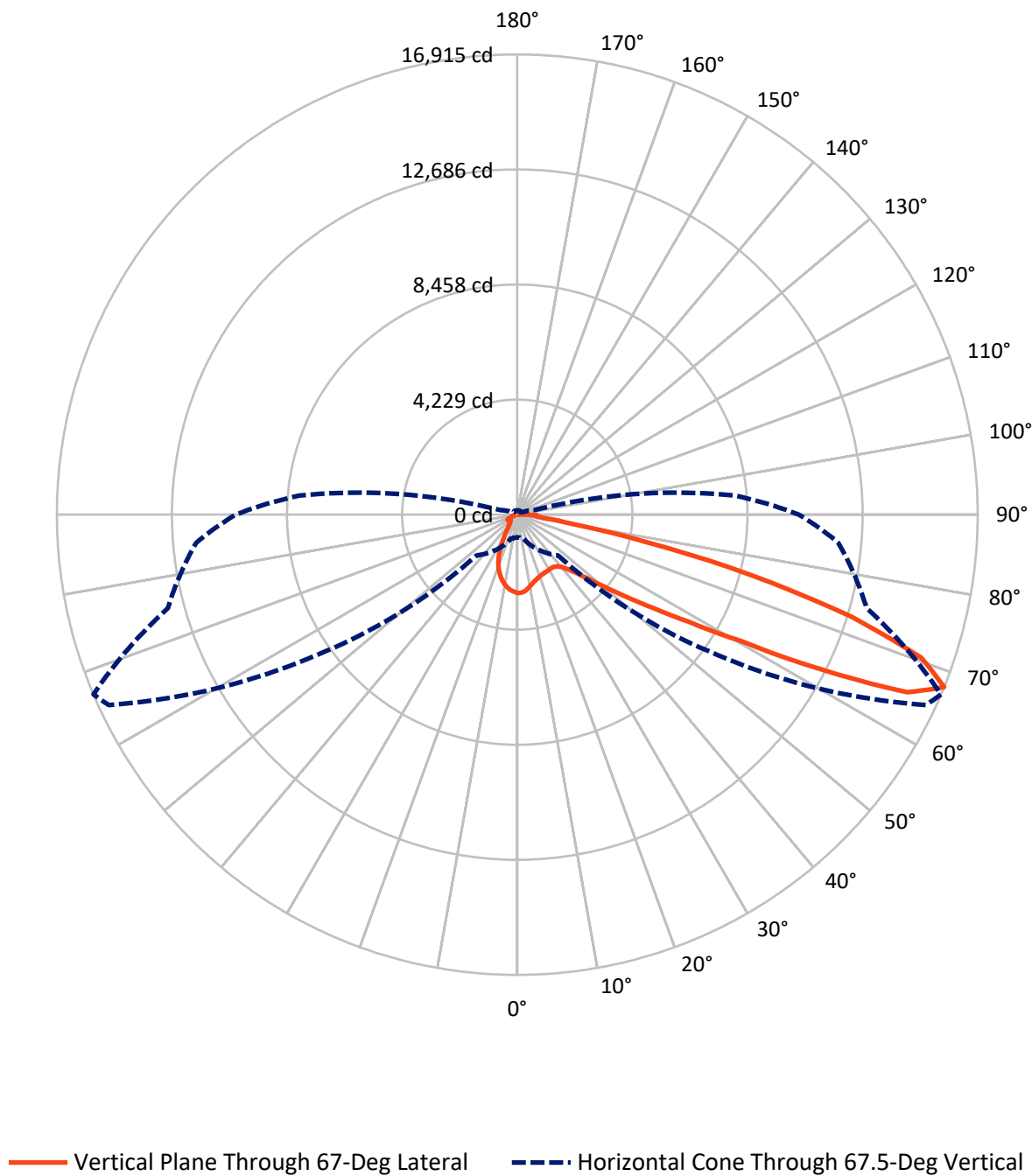


Based on 20 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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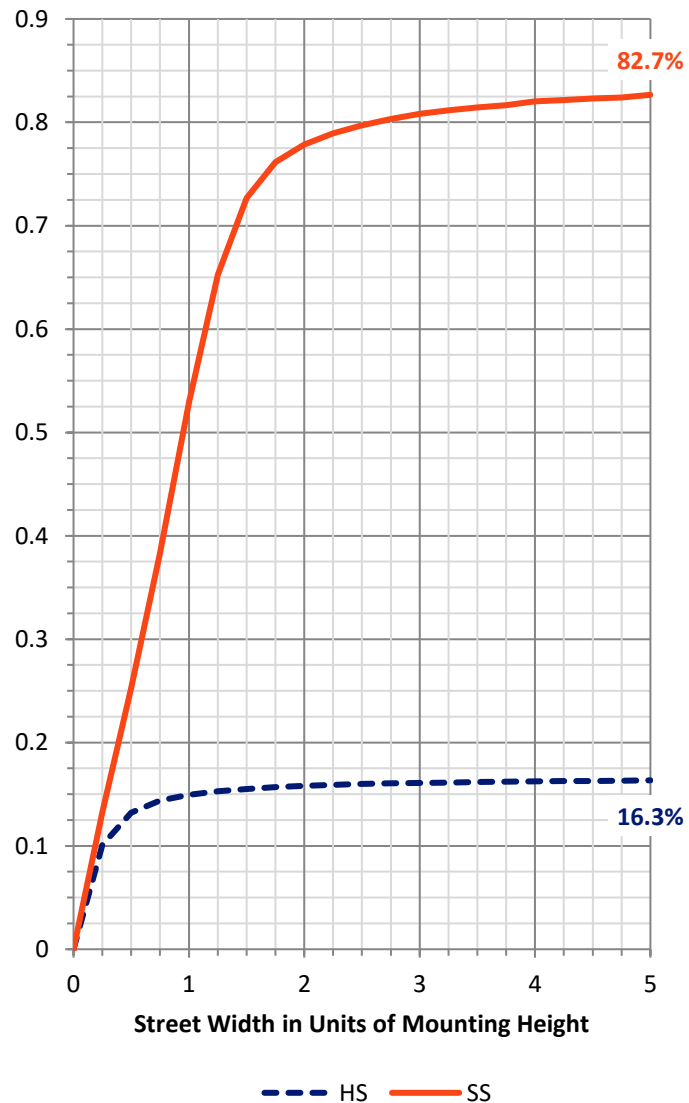
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2212.0   | 0.0    | 2212.0  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 11138.0  | 0.0    | 11138.0 |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 13350.0  | 0.0    | 13350.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 245.7   | 1.8       |
| 10°-20°   | 568.4   | 4.3       |
| 20°-30°   | 770.5   | 5.8       |
| 30°-40°   | 1095.4  | 8.2       |
| 40°-50°   | 1832.6  | 13.7      |
| 50°-60°   | 2899.2  | 21.7      |
| 60°-70°   | 3693.3  | 27.7      |
| 70°-80°   | 1934.5  | 14.5      |
| 80°-90°   | 310.3   | 2.3       |
| 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°    | 13350.0 | 100.0     |
| 0°-180°   | 13350.0 | 100.0     |

**Coefficient of Utilization**



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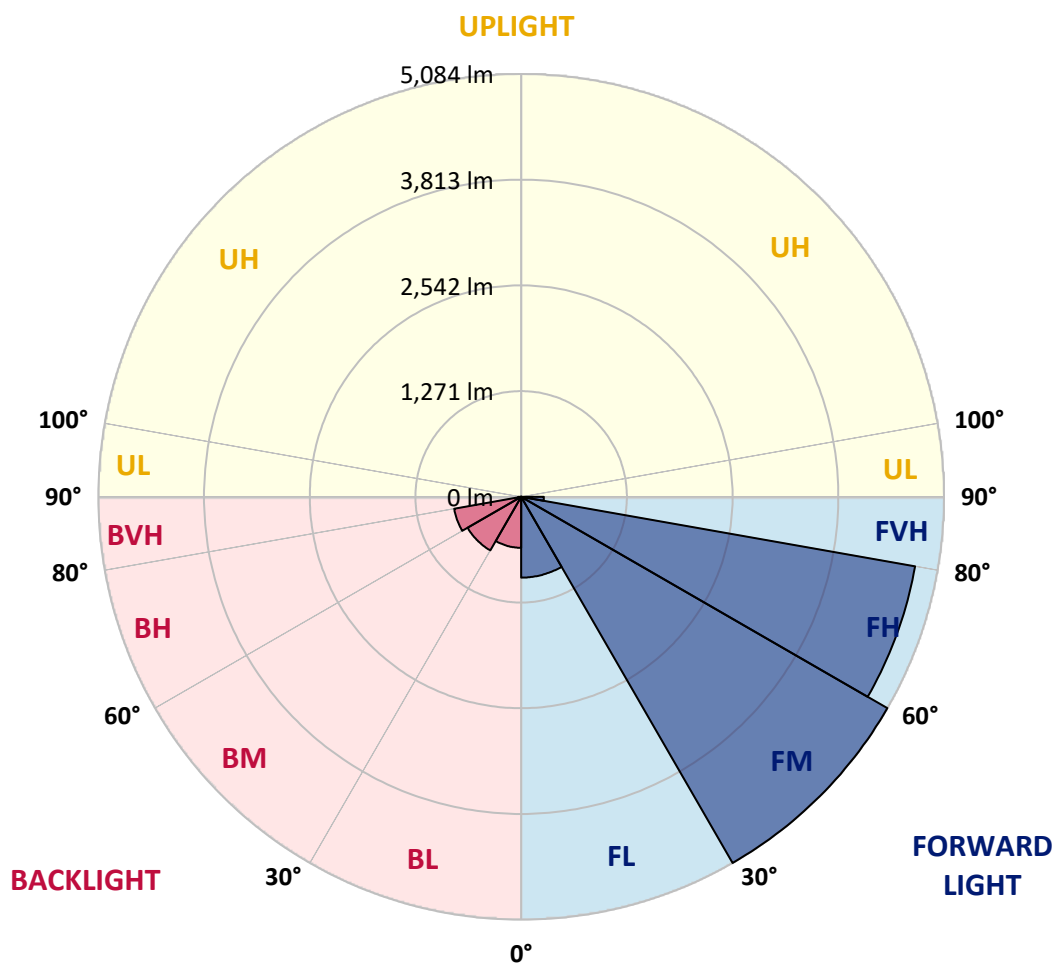
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 971.6  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 5084.0 | 38.1      |                         |      |         |
| FH   | (60°-80°)   | 4809.7 | 36.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 272.8  | 2.0       |                         |      | G3/500  |
| BL   | (0°-30°)    | 613.1  | 4.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 743.3  | 5.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 818.1  | 6.1       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 37.5   | 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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6  | 2879.6  | 2879.6  | 2879.6  | 2879.6  |
| 2.5°  | 2761.1 | 2765.7 | 2780.2 | 2789.4 | 2830.8 | 2848.6 | 2861.1  | 2873.6  | 2875.6  | 2881.5  | 2875.6  |
| 5°    | 2471.4 | 2481.3 | 2508.3 | 2538.5 | 2618.9 | 2682.1 | 2748.6  | 2817.7  | 2830.2  | 2875.0  | 2887.5  |
| 7.5°  | 2246.9 | 2244.3 | 2266.7 | 2302.9 | 2385.2 | 2472.7 | 2589.2  | 2726.8  | 2753.8  | 2854.5  | 2903.3  |
| 10°   | 2083.0 | 2081.0 | 2104.7 | 2142.2 | 2220.6 | 2303.5 | 2435.2  | 2623.5  | 2661.7  | 2822.3  | 2918.4  |
| 12.5° | 1961.8 | 1962.5 | 1986.2 | 2027.7 | 2107.3 | 2190.9 | 2324.6  | 2523.4  | 2572.1  | 2784.8  | 2934.2  |
| 15°   | 1881.5 | 1886.8 | 1905.9 | 1950.0 | 2027.7 | 2111.3 | 2242.3  | 2448.4  | 2503.0  | 2755.1  | 2952.0  |
| 17.5° | 1854.5 | 1863.1 | 1869.7 | 1901.9 | 1968.4 | 2052.0 | 2180.4  | 2393.1  | 2451.0  | 2734.7  | 2967.8  |
| 20°   | 1879.5 | 1889.4 | 1876.9 | 1888.1 | 1930.2 | 2004.0 | 2131.7  | 2349.6  | 2408.9  | 2711.7  | 2969.8  |
| 22.5° | 1986.9 | 1996.1 | 1959.2 | 1926.9 | 1924.3 | 1969.1 | 2091.5  | 2315.4  | 2376.6  | 2694.6  | 2970.4  |
| 25°   | 2175.8 | 2181.7 | 2119.8 | 2044.8 | 1971.7 | 1956.6 | 2063.2  | 2291.7  | 2356.8  | 2679.4  | 2957.9  |
| 27.5° | 2407.5 | 2412.1 | 2341.0 | 2230.4 | 2083.6 | 1986.2 | 2053.4  | 2277.8  | 2345.7  | 2666.3  | 2936.8  |
| 30°   | 2689.3 | 2711.0 | 2615.6 | 2476.0 | 2262.0 | 2073.8 | 2073.1  | 2270.6  | 2333.1  | 2643.9  | 2895.4  |
| 32.5° | 2977.7 | 2986.9 | 2921.0 | 2779.5 | 2502.3 | 2227.8 | 2128.4  | 2275.9  | 2329.9  | 2616.9  | 2842.7  |
| 35°   | 3270.0 | 3281.8 | 3239.0 | 3125.1 | 2830.8 | 2453.6 | 2236.4  | 2306.8  | 2350.3  | 2607.7  | 2805.8  |
| 37.5° | 3648.5 | 3664.3 | 3605.0 | 3473.4 | 3230.5 | 2759.7 | 2416.1  | 2384.5  | 2412.8  | 2634.0  | 2794.6  |
| 40°   | 4246.9 | 4239.7 | 4066.5 | 3870.4 | 3667.6 | 3151.5 | 2672.8  | 2516.2  | 2532.6  | 2718.9  | 2828.9  |
| 42.5° | 4943.4 | 4925.7 | 4627.4 | 4319.3 | 4148.2 | 3625.5 | 3012.5  | 2744.6  | 2741.3  | 2886.1  | 2949.3  |
| 45°   | 5499.1 | 5484.6 | 5216.0 | 4836.1 | 4699.2 | 4165.3 | 3451.7  | 3085.0  | 3060.6  | 3151.5  | 3171.9  |
| 47.5° | 5799.9 | 5800.6 | 5645.9 | 5335.8 | 5332.5 | 4851.3 | 4015.9  | 3577.4  | 3535.3  | 3578.1  | 3556.3  |
| 50°   | 5694.6 | 5708.4 | 5692.0 | 5593.2 | 5910.5 | 5750.6 | 4752.5  | 4264.0  | 4179.1  | 4221.3  | 4137.6  |
| 52.5° | 5185.1 | 5202.8 | 5300.3 | 5451.7 | 6153.5 | 6837.5 | 5834.8  | 5117.2  | 5018.5  | 5003.4  | 4910.5  |
| 55°   | 4281.8 | 4303.5 | 4502.4 | 4913.8 | 5951.4 | 7567.6 | 7542.6  | 6204.8  | 6047.5  | 5904.6  | 5865.1  |
| 57.5° | 2951.3 | 2987.5 | 3307.5 | 3918.4 | 5297.6 | 7788.1 | 9576.2  | 7755.2  | 7435.2  | 6936.2  | 6945.4  |
| 60°   | 1663.6 | 1705.7 | 2083.0 | 2638.0 | 3978.3 | 7548.5 | 11123.2 | 10103.5 | 9428.0  | 8144.3  | 8212.7  |
| 62.5° | 1057.9 | 1103.4 | 1389.7 | 1832.8 | 2387.1 | 6258.1 | 11757.2 | 13368.2 | 12510.4 | 9633.4  | 9700.6  |
| 65°   | 856.5  | 876.2  | 1011.2 | 1512.9 | 1733.4 | 3770.3 | 11276.0 | 16057.5 | 15737.5 | 11523.5 | 11210.1 |
| 67.5° | 836.1  | 842.7  | 912.5  | 1269.9 | 1662.3 | 2119.2 | 8994.2  | 16560.4 | 16915.3 | 13288.5 | 11838.9 |
| 70°   | 826.2  | 849.3  | 1028.3 | 1212.0 | 1591.9 | 1787.4 | 5404.9  | 15181.9 | 15742.1 | 13750.0 | 11002.1 |
| 72.5° | 400.9  | 399.6  | 517.5  | 1096.1 | 1793.3 | 1853.9 | 2776.9  | 12283.9 | 12846.1 | 11912.6 | 9040.9  |
| 75°   | 323.2  | 295.6  | 282.4  | 401.6  | 1724.2 | 1914.4 | 1769.6  | 8452.4  | 8859.2  | 7986.9  | 5557.7  |
| 77.5° | 306.8  | 273.9  | 250.8  | 251.5  | 728.8  | 2030.3 | 1499.0  | 4678.1  | 4796.6  | 3607.7  | 1522.7  |
| 80°   | 254.1  | 223.8  | 207.4  | 233.7  | 352.9  | 1933.5 | 1620.8  | 2117.2  | 1942.7  | 886.1   | 506.9   |
| 82.5° | 176.4  | 160.6  | 156.0  | 196.2  | 282.4  | 1377.9 | 1884.8  | 1137.6  | 953.9   | 443.7   | 312.7   |
| 85°   | 112.6  | 96.1   | 106.7  | 142.9  | 219.9  | 636.0  | 1941.4  | 886.8   | 705.1   | 281.8   | 176.4   |
| 87.5° | 52.0   | 42.1   | 52.7   | 79.0   | 143.5  | 219.2  | 1847.3  | 996.1   | 726.1   | 148.8   | 111.3   |
| 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°    | 2879.6  | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 |
| 2.5°  | 2880.9  | 2868.4 | 2858.5 | 2840.1 | 2819.7 | 2799.9 | 2782.1 | 2759.7 | 2753.2 | 2747.2 | 2756.5 |
| 5°    | 2890.1  | 2877.6 | 2841.4 | 2784.8 | 2722.2 | 2663.6 | 2605.0 | 2555.0 | 2524.1 | 2506.9 | 2516.8 |
| 7.5°  | 2903.9  | 2886.1 | 2811.1 | 2707.1 | 2594.5 | 2491.8 | 2385.8 | 2300.9 | 2238.3 | 2208.7 | 2217.3 |
| 10°   | 2916.4  | 2882.2 | 2759.7 | 2603.7 | 2439.1 | 2286.4 | 2119.2 | 1980.9 | 1878.2 | 1824.2 | 1837.4 |
| 12.5° | 2921.7  | 2867.1 | 2688.0 | 2474.7 | 2248.9 | 2025.0 | 1778.8 | 1572.1 | 1424.6 | 1370.7 | 1359.5 |
| 15°   | 2927.0  | 2849.9 | 2609.0 | 2327.9 | 2019.1 | 1702.5 | 1357.5 | 1110.0 | 987.5  | 960.5  | 954.6  |
| 17.5° | 2928.3  | 2820.3 | 2519.5 | 2168.6 | 1749.9 | 1318.6 | 928.3  | 770.9  | 771.6  | 815.0  | 820.3  |
| 20°   | 2914.5  | 2776.2 | 2410.8 | 1970.4 | 1427.3 | 911.8  | 637.3  | 610.3  | 709.7  | 818.3  | 831.5  |
| 22.5° | 2882.9  | 2717.6 | 2287.7 | 1739.3 | 1057.9 | 600.4  | 493.1  | 522.7  | 651.1  | 784.1  | 799.2  |
| 25°   | 2842.7  | 2646.5 | 2142.2 | 1471.4 | 700.5  | 429.2  | 413.4  | 449.6  | 536.5  | 625.4  | 634.0  |
| 27.5° | 2788.1  | 2562.2 | 1979.0 | 1164.6 | 454.9  | 353.5  | 364.1  | 388.4  | 424.0  | 463.5  | 467.4  |
| 30°   | 2717.6  | 2461.5 | 1804.5 | 849.3  | 343.7  | 318.0  | 333.1  | 346.3  | 361.4  | 383.8  | 385.8  |
| 32.5° | 2636.6  | 2364.7 | 1625.4 | 586.6  | 304.8  | 299.5  | 311.4  | 318.0  | 329.8  | 343.7  | 345.0  |
| 35°   | 2568.8  | 2272.6 | 1439.8 | 414.8  | 288.4  | 285.7  | 293.6  | 296.3  | 307.4  | 322.6  | 323.9  |
| 37.5° | 2530.0  | 2197.5 | 1248.2 | 334.4  | 277.2  | 273.2  | 277.8  | 277.8  | 293.6  | 316.0  | 319.3  |
| 40°   | 2532.6  | 2156.1 | 1056.6 | 302.2  | 267.9  | 262.7  | 263.3  | 263.3  | 283.7  | 308.1  | 310.1  |
| 42.5° | 2604.4  | 2166.6 | 886.8  | 289.7  | 260.7  | 254.8  | 251.5  | 253.5  | 270.6  | 286.4  | 287.7  |
| 45°   | 2772.9  | 2241.0 | 727.5  | 281.8  | 253.5  | 251.5  | 244.2  | 243.6  | 250.2  | 257.4  | 257.4  |
| 47.5° | 3049.4  | 2387.8 | 619.5  | 276.5  | 247.5  | 246.9  | 238.3  | 229.8  | 229.1  | 231.7  | 231.7  |
| 50°   | 3499.1  | 2640.6 | 547.1  | 270.6  | 243.6  | 238.3  | 228.4  | 215.3  | 210.7  | 212.6  | 212.6  |
| 52.5° | 4173.2  | 3091.5 | 519.4  | 262.7  | 235.0  | 226.5  | 215.3  | 202.1  | 198.2  | 198.8  | 198.8  |
| 55°   | 5057.3  | 3784.1 | 515.5  | 253.5  | 225.8  | 212.0  | 202.8  | 192.9  | 188.3  | 189.6  | 189.6  |
| 57.5° | 6137.7  | 4742.0 | 585.9  | 239.0  | 213.3  | 197.5  | 192.2  | 185.7  | 182.4  | 184.3  | 183.7  |
| 60°   | 7451.0  | 5995.5 | 869.0  | 223.8  | 200.8  | 184.3  | 184.3  | 179.1  | 176.4  | 178.4  | 177.8  |
| 62.5° | 8963.9  | 7435.2 | 1221.9 | 212.6  | 187.6  | 173.8  | 176.4  | 173.8  | 171.2  | 172.5  | 171.8  |
| 65°   | 10305.6 | 8373.4 | 1144.2 | 204.1  | 174.5  | 163.9  | 168.5  | 167.2  | 165.2  | 166.6  | 165.9  |
| 67.5° | 10344.4 | 8025.8 | 642.5  | 194.9  | 162.0  | 154.1  | 160.6  | 160.0  | 158.7  | 160.0  | 159.3  |
| 70°   | 9231.8  | 6776.9 | 362.1  | 177.8  | 148.8  | 142.2  | 151.4  | 150.8  | 149.4  | 152.1  | 151.4  |
| 72.5° | 7396.4  | 4917.8 | 264.7  | 156.7  | 135.6  | 129.7  | 140.2  | 139.6  | 139.6  | 143.5  | 141.5  |
| 75°   | 4256.1  | 2530.6 | 211.3  | 134.3  | 121.8  | 117.2  | 126.4  | 127.1  | 128.4  | 133.6  | 129.7  |
| 77.5° | 1213.3  | 788.7  | 172.5  | 113.9  | 104.7  | 102.7  | 111.9  | 113.2  | 113.9  | 119.8  | 114.6  |
| 80°   | 451.0   | 363.4  | 142.2  | 95.5   | 85.6   | 86.2   | 94.8   | 96.8   | 97.4   | 103.4  | 96.8   |
| 82.5° | 287.7   | 239.6  | 115.2  | 73.7   | 67.2   | 66.5   | 77.0   | 79.7   | 79.7   | 80.3   | 76.4   |
| 85°   | 167.9   | 143.5  | 86.9   | 53.3   | 47.4   | 45.4   | 57.3   | 61.9   | 59.9   | 58.6   | 56.0   |
| 87.5° | 112.6   | 98.8   | 53.3   | 29.6   | 25.7   | 24.4   | 33.6   | 36.9   | 35.6   | 33.6   | 31.6   |
| 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)