

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: P200136

Luminaire Tested: **GAW-AF-02-LED-U-SL3**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200136  
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: GAW-AF-02-LED-U-SL3  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA 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: 12709.1 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 113  
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



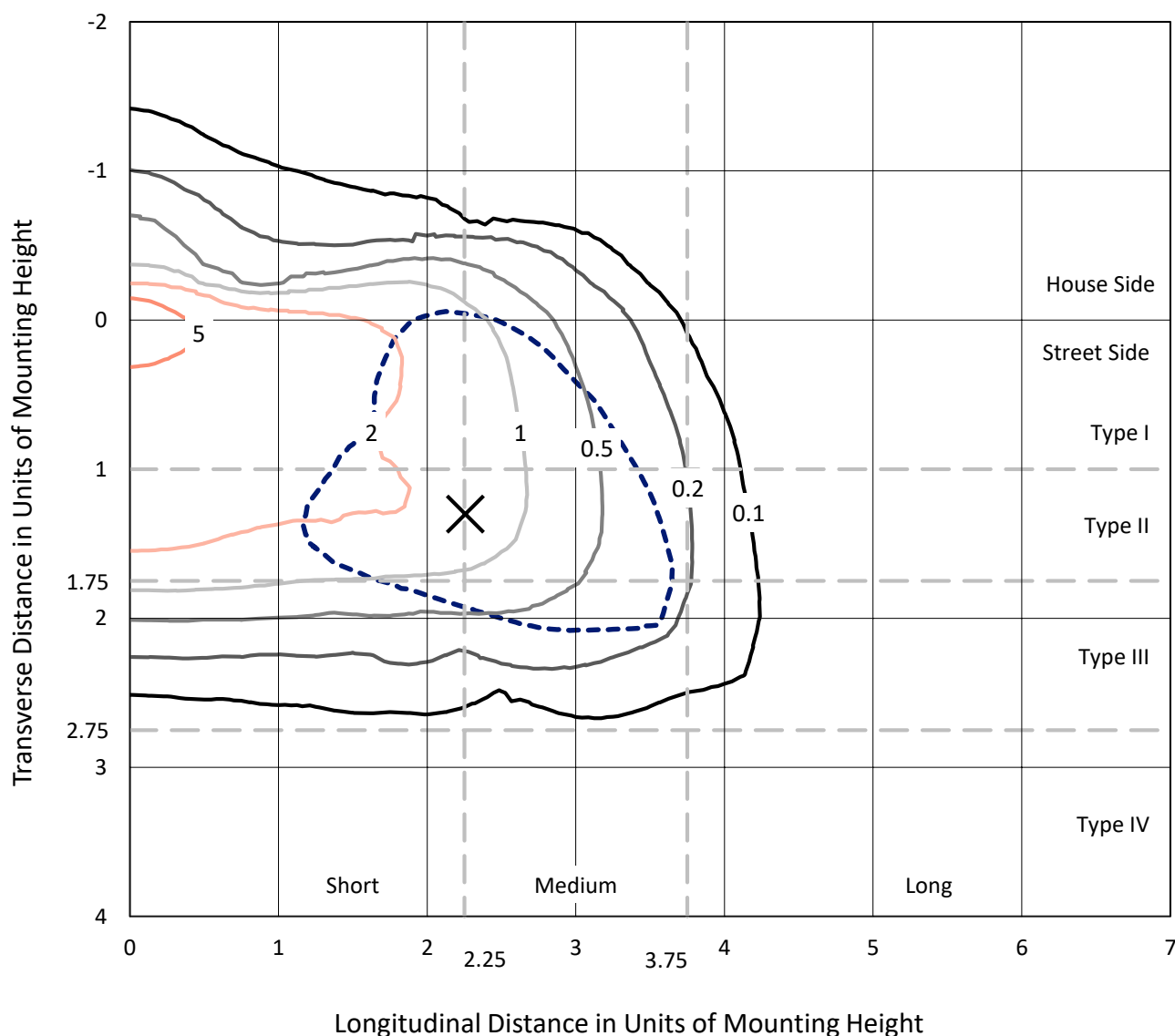
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

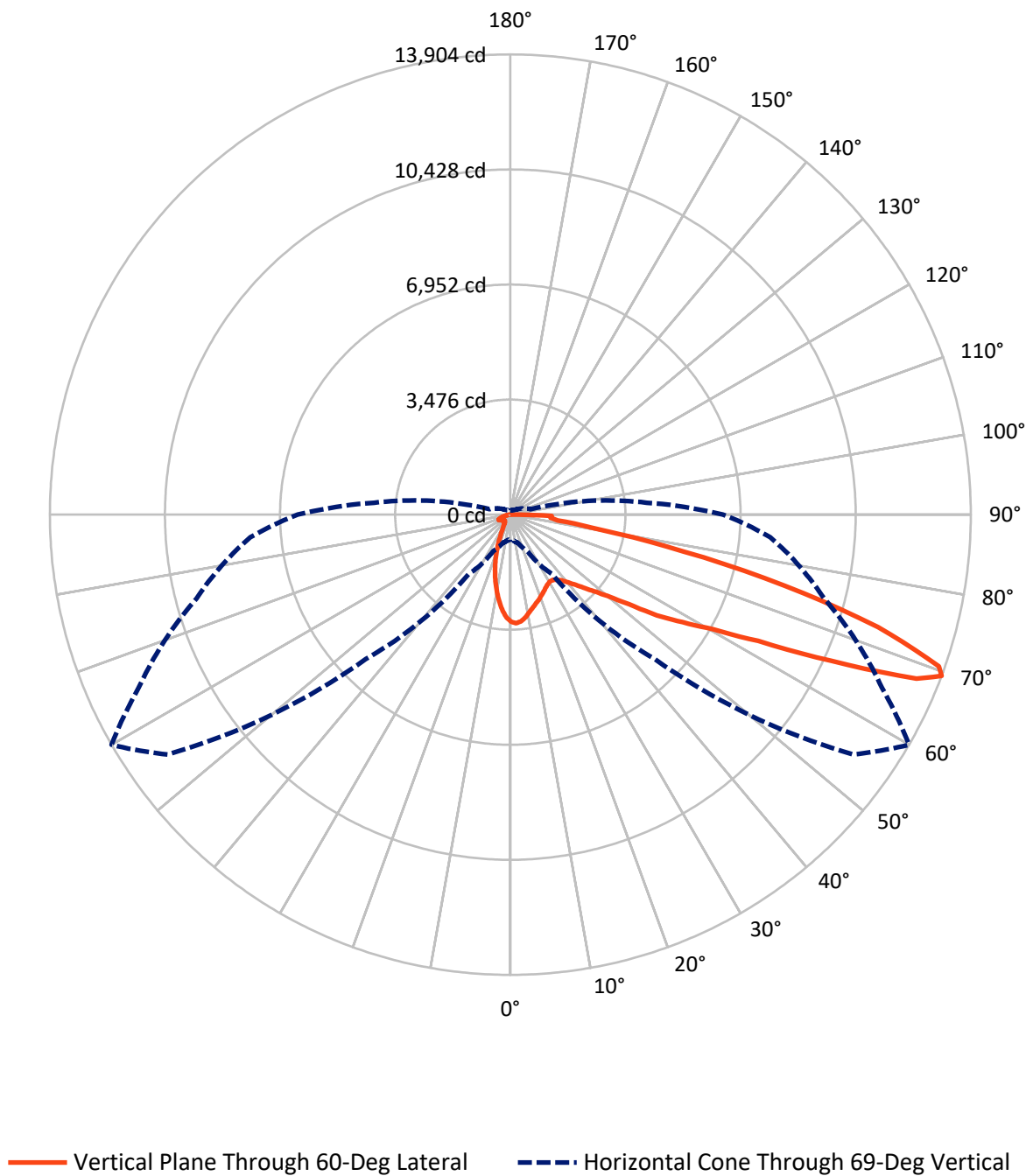


Based on 20 foot mounting height. Maximum calculated value = 8.1 fc  
 Type III - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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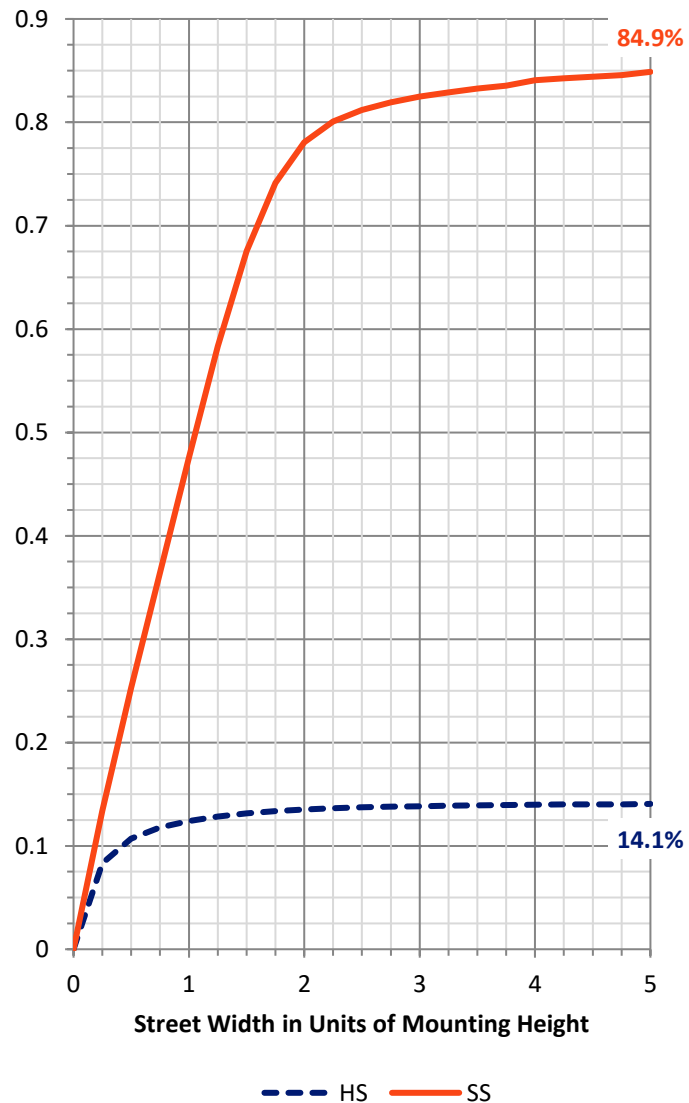
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1808.1   | 0.0    | 1808.1  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 10901.0  | 0.0    | 10901.0 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 12709.1  | 0.0    | 12709.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 273.8   | 2.2       |
| 10°-20°   | 583.4   | 4.6       |
| 20°-30°   | 743.4   | 5.8       |
| 30°-40°   | 1021.9  | 8.0       |
| 40°-50°   | 1658.2  | 13.0      |
| 50°-60°   | 2659.3  | 20.9      |
| 60°-70°   | 3539.3  | 27.8      |
| 70°-80°   | 1911.0  | 15.0      |
| 80°-90°   | 318.8   | 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°    | 12709.1 | 100.0     |
| 0°-180°   | 12709.1 | 100.0     |

**Coefficient of Utilization**



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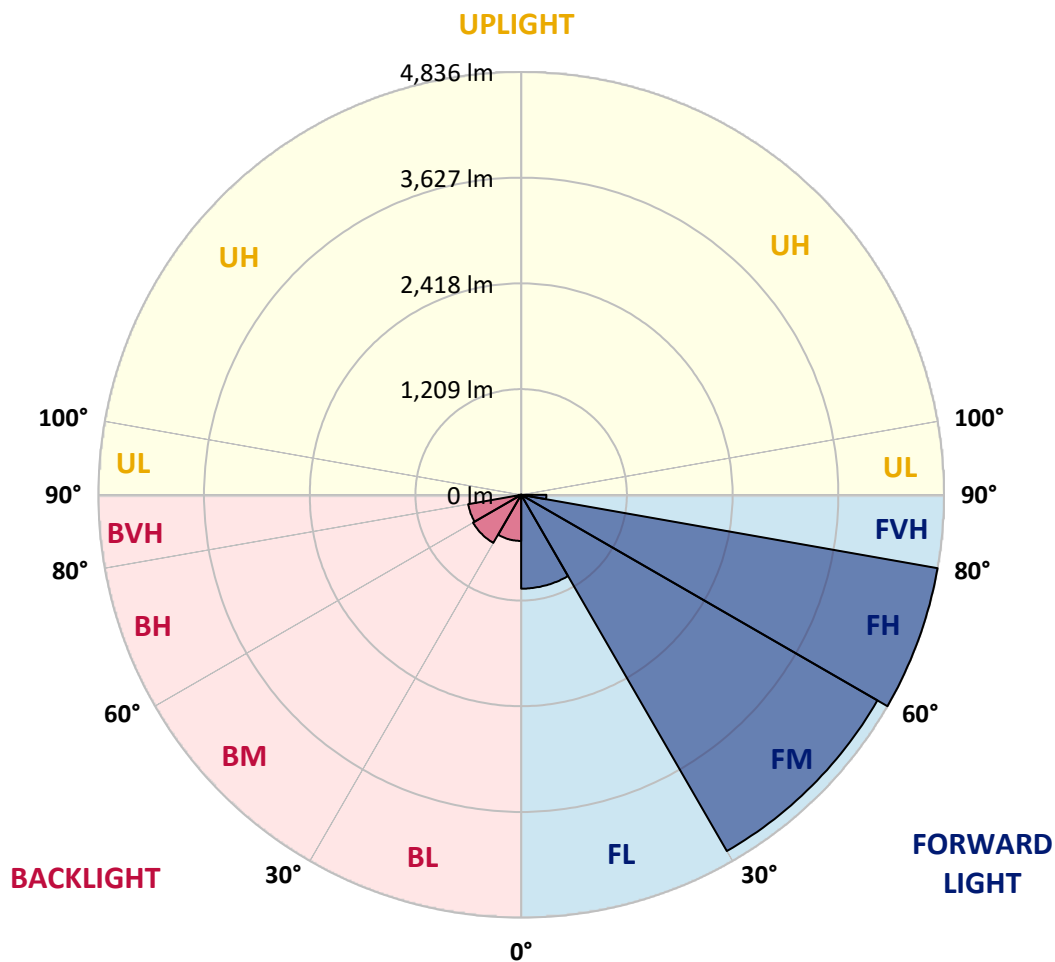
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1073.1 | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 4704.2 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 4835.6 | 38.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 288.1  | 2.3       |                         |      | G3/500  |
| BL   | (0°-30°)    | 527.5  | 4.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 635.2  | 5.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 614.7  | 4.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 30.7   | 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°    | 3238.5 | 3238.5 | 3238.5 | 3238.5 | 3238.5 | 3238.5 | 3238.5  | 3238.5  | 3238.5  | 3238.5 | 3238.5 |
| 2.5°  | 3304.7 | 3312.1 | 3309.0 | 3307.2 | 3312.7 | 3304.1 | 3286.3  | 3280.8  | 3272.2  | 3252.0 | 3217.6 |
| 5°    | 3180.8 | 3202.9 | 3201.6 | 3218.2 | 3245.8 | 3253.2 | 3245.2  | 3246.4  | 3230.5  | 3205.3 | 3148.2 |
| 7.5°  | 2966.6 | 2975.8 | 2980.7 | 3016.9 | 3067.2 | 3107.7 | 3142.1  | 3153.1  | 3145.8  | 3124.3 | 3050.6 |
| 10°   | 2745.5 | 2752.9 | 2764.5 | 2806.9 | 2870.7 | 2926.6 | 2991.7  | 3029.2  | 3045.1  | 3041.4 | 2959.2 |
| 12.5° | 2555.8 | 2563.2 | 2578.6 | 2626.4 | 2702.5 | 2771.3 | 2865.8  | 2912.4  | 2950.6  | 2973.3 | 2884.8 |
| 15°   | 2385.7 | 2401.7 | 2416.4 | 2471.7 | 2557.1 | 2647.3 | 2754.1  | 2813.0  | 2871.9  | 2922.9 | 2819.2 |
| 17.5° | 2253.2 | 2269.1 | 2277.7 | 2328.0 | 2418.9 | 2529.3 | 2654.7  | 2724.0  | 2797.7  | 2881.1 | 2754.1 |
| 20°   | 2176.4 | 2183.8 | 2180.1 | 2208.3 | 2290.0 | 2407.2 | 2555.8  | 2636.2  | 2725.2  | 2841.9 | 2689.0 |
| 22.5° | 2154.8 | 2155.5 | 2142.0 | 2138.9 | 2191.8 | 2290.6 | 2450.2  | 2547.8  | 2657.1  | 2816.1 | 2633.2 |
| 25°   | 2207.1 | 2205.3 | 2168.5 | 2138.3 | 2143.8 | 2201.6 | 2348.3  | 2461.8  | 2600.0  | 2810.6 | 2590.2 |
| 27.5° | 2323.1 | 2328.6 | 2274.0 | 2217.6 | 2161.6 | 2159.8 | 2271.0  | 2390.6  | 2553.3  | 2835.7 | 2571.8 |
| 30°   | 2485.8 | 2495.0 | 2436.7 | 2364.9 | 2259.9 | 2173.4 | 2240.9  | 2348.3  | 2524.4  | 2887.9 | 2568.7 |
| 32.5° | 2663.9 | 2673.7 | 2629.5 | 2553.9 | 2416.4 | 2256.8 | 2261.7  | 2352.0  | 2523.2  | 2961.0 | 2589.6 |
| 35°   | 2853.5 | 2864.6 | 2841.9 | 2778.0 | 2625.2 | 2410.9 | 2341.5  | 2411.5  | 2563.2  | 3072.7 | 2645.5 |
| 37.5° | 3065.4 | 3082.6 | 3088.7 | 3027.9 | 2864.6 | 2614.2 | 2472.3  | 2524.4  | 2653.4  | 3228.0 | 2748.0 |
| 40°   | 3370.5 | 3394.5 | 3392.6 | 3305.4 | 3139.0 | 2888.5 | 2674.3  | 2687.8  | 2794.0  | 3435.6 | 2911.8 |
| 42.5° | 3954.9 | 3959.8 | 3807.0 | 3617.3 | 3441.1 | 3177.1 | 2912.4  | 2901.4  | 2988.0  | 3698.3 | 3153.1 |
| 45°   | 4698.4 | 4678.2 | 4338.0 | 3971.5 | 3756.7 | 3508.6 | 3222.5  | 3168.5  | 3234.2  | 4018.8 | 3455.2 |
| 47.5° | 5315.5 | 5268.7 | 4839.0 | 4333.1 | 4090.6 | 3869.0 | 3586.6  | 3492.0  | 3528.3  | 4382.2 | 3845.7 |
| 50°   | 5529.7 | 5494.7 | 5138.6 | 4634.0 | 4406.8 | 4308.6 | 4034.7  | 3900.9  | 3910.7  | 4815.6 | 4303.0 |
| 52.5° | 5483.6 | 5478.7 | 5241.1 | 4832.2 | 4702.7 | 4770.2 | 4669.6  | 4488.4  | 4392.7  | 5296.9 | 4796.6 |
| 55°   | 5375.0 | 5385.4 | 5299.4 | 5063.1 | 5041.0 | 5215.9 | 5499.0  | 5365.2  | 5067.4  | 5782.6 | 5306.9 |
| 57.5° | 4997.4 | 5024.4 | 5213.5 | 5353.5 | 5585.5 | 5845.9 | 6167.0  | 6128.9  | 5793.7  | 6307.5 | 5913.4 |
| 60°   | 4026.1 | 4088.7 | 4595.9 | 5296.9 | 6146.1 | 6960.2 | 7103.8  | 7015.4  | 6542.7  | 6958.9 | 6714.5 |
| 62.5° | 2821.0 | 2886.1 | 3489.0 | 4586.1 | 6053.9 | 8218.7 | 8778.6  | 8397.3  | 7618.2  | 7918.5 | 7751.5 |
| 65°   | 1510.3 | 1541.6 | 2002.0 | 3182.0 | 5111.0 | 8478.4 | 11226.4 | 10646.2 | 9321.3  | 9101.5 | 8638.6 |
| 67.5° | 833.1  | 850.3  | 1026.5 | 1606.6 | 3273.4 | 7466.0 | 12785.8 | 13224.1 | 11449.8 | 9889.2 | 8477.2 |
| 69°   | 753.3  | 769.3  | 884.6  | 1216.8 | 2190.5 | 6173.1 | 12633.4 | 13903.6 | 12383.0 | 9811.2 | 7880.4 |
| 70°   | 736.7  | 751.5  | 855.2  | 1121.7 | 1773.1 | 5088.3 | 12123.3 | 13729.9 | 12605.2 | 9531.9 | 7359.8 |
| 72.5° | 663.1  | 679.0  | 779.7  | 1007.5 | 1515.2 | 2536.7 | 9603.1  | 11608.9 | 11444.3 | 8264.7 | 5582.4 |
| 75°   | 618.3  | 633.0  | 803.6  | 986.6  | 1450.7 | 1605.4 | 6330.8  | 8555.8  | 8412.6  | 5781.4 | 3010.1 |
| 77.5° | 264.6  | 263.4  | 372.7  | 834.9  | 1472.2 | 1554.5 | 3401.8  | 5344.9  | 4876.4  | 2471.0 | 864.4  |
| 80°   | 176.8  | 173.7  | 176.8  | 245.6  | 1350.0 | 1563.1 | 1782.3  | 2713.0  | 2049.3  | 629.9  | 426.1  |
| 82.5° | 152.2  | 149.8  | 155.3  | 149.8  | 474.5  | 1784.1 | 1515.2  | 1442.8  | 974.3   | 357.9  | 211.2  |
| 85°   | 102.5  | 98.2   | 133.8  | 134.4  | 224.1  | 1585.2 | 1706.7  | 1218.6  | 788.3   | 212.5  | 104.3  |
| 87.5° | 49.1   | 47.9   | 77.9   | 95.1   | 131.3  | 644.0  | 1914.9  | 1248.7  | 795.0   | 108.6  | 49.7   |
| 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°    | 3238.5 | 3238.5 | 3238.5 | 3238.5 | 3238.5 | 3238.5 | 3238.5 | 3238.5 | 3238.5 | 3238.5 | 3238.5 |
| 2.5°  | 3207.2 | 3182.0 | 3157.4 | 3128.0 | 3097.3 | 3062.9 | 3045.7 | 3028.5 | 3024.3 | 3019.3 | 3002.2 |
| 5°    | 3118.8 | 3083.2 | 3021.8 | 2954.3 | 2883.0 | 2813.6 | 2760.8 | 2727.7 | 2702.5 | 2689.6 | 2666.9 |
| 7.5°  | 3004.6 | 2952.4 | 2844.9 | 2728.3 | 2608.6 | 2499.3 | 2404.8 | 2345.2 | 2288.8 | 2262.4 | 2232.3 |
| 10°   | 2895.9 | 2817.9 | 2651.0 | 2479.0 | 2307.2 | 2142.0 | 1986.7 | 1876.8 | 1779.2 | 1724.5 | 1685.8 |
| 12.5° | 2802.6 | 2695.8 | 2464.3 | 2231.7 | 1995.9 | 1760.7 | 1528.1 | 1345.1 | 1192.2 | 1111.8 | 1070.7 |
| 15°   | 2711.7 | 2582.8 | 2286.9 | 1991.6 | 1688.9 | 1369.0 | 1063.4 | 855.8  | 729.4  | 679.0  | 661.8  |
| 17.5° | 2629.5 | 2464.3 | 2108.8 | 1749.7 | 1372.1 | 985.4  | 714.6  | 600.5  | 551.9  | 535.3  | 529.8  |
| 20°   | 2540.4 | 2344.6 | 1924.1 | 1496.8 | 1041.9 | 688.9  | 558.0  | 507.7  | 488.0  | 483.1  | 480.7  |
| 22.5° | 2454.5 | 2226.8 | 1747.2 | 1226.0 | 748.4  | 531.6  | 479.5  | 458.6  | 455.5  | 459.8  | 459.8  |
| 25°   | 2381.4 | 2121.1 | 1556.3 | 943.0  | 549.4  | 447.5  | 429.1  | 424.2  | 435.9  | 451.8  | 454.9  |
| 27.5° | 2326.8 | 2034.5 | 1353.1 | 696.2  | 437.7  | 389.2  | 388.6  | 396.6  | 425.4  | 456.1  | 462.3  |
| 30°   | 2289.4 | 1952.3 | 1135.8 | 502.2  | 367.1  | 342.6  | 352.4  | 369.6  | 411.9  | 455.5  | 467.2  |
| 32.5° | 2270.3 | 1891.5 | 909.2  | 388.6  | 314.4  | 300.8  | 317.4  | 338.3  | 380.0  | 420.5  | 435.9  |
| 35°   | 2285.1 | 1846.7 | 695.6  | 324.2  | 277.5  | 267.1  | 284.3  | 304.5  | 329.1  | 346.3  | 357.9  |
| 37.5° | 2340.3 | 1828.9 | 524.9  | 290.4  | 252.4  | 242.5  | 256.0  | 267.7  | 277.5  | 282.4  | 288.0  |
| 40°   | 2459.4 | 1848.0 | 420.5  | 273.2  | 238.2  | 226.0  | 231.5  | 235.8  | 241.9  | 246.8  | 249.3  |
| 42.5° | 2635.0 | 1905.0 | 377.0  | 266.5  | 230.9  | 213.1  | 211.9  | 213.7  | 221.7  | 230.9  | 232.7  |
| 45°   | 2880.5 | 2005.7 | 373.9  | 270.8  | 227.2  | 202.6  | 197.1  | 199.6  | 211.9  | 226.0  | 228.4  |
| 47.5° | 3194.3 | 2159.1 | 398.4  | 283.7  | 230.3  | 197.1  | 187.8  | 190.9  | 206.3  | 225.4  | 228.4  |
| 50°   | 3574.3 | 2373.5 | 439.6  | 302.7  | 243.8  | 198.4  | 184.7  | 186.6  | 202.6  | 223.5  | 226.6  |
| 52.5° | 4023.1 | 2677.4 | 484.4  | 321.1  | 257.9  | 206.3  | 187.2  | 182.9  | 197.7  | 216.1  | 219.8  |
| 55°   | 4522.3 | 3067.2 | 530.4  | 337.7  | 265.3  | 216.1  | 192.1  | 178.0  | 188.4  | 203.9  | 206.9  |
| 57.5° | 5134.9 | 3612.3 | 610.3  | 353.6  | 270.2  | 222.9  | 197.1  | 173.1  | 176.8  | 187.8  | 190.3  |
| 60°   | 5964.3 | 4383.4 | 750.8  | 380.0  | 281.2  | 225.4  | 196.4  | 168.8  | 165.1  | 171.2  | 172.5  |
| 62.5° | 6958.3 | 5220.8 | 868.1  | 413.2  | 299.6  | 227.2  | 192.7  | 165.7  | 155.3  | 155.3  | 156.5  |
| 65°   | 7548.3 | 5445.0 | 803.0  | 440.8  | 315.0  | 225.4  | 188.4  | 162.6  | 147.9  | 141.2  | 141.8  |
| 67.5° | 7047.9 | 4788.6 | 688.2  | 446.3  | 314.4  | 216.8  | 181.7  | 157.1  | 140.6  | 130.1  | 129.5  |
| 69°   | 6421.1 | 4131.8 | 636.7  | 431.6  | 299.6  | 205.7  | 173.1  | 151.0  | 135.0  | 124.0  | 123.4  |
| 70°   | 5915.8 | 3730.8 | 602.9  | 415.6  | 283.7  | 197.7  | 166.3  | 145.5  | 130.7  | 120.3  | 119.1  |
| 72.5° | 4301.2 | 2444.6 | 515.1  | 357.3  | 233.9  | 165.7  | 143.6  | 127.7  | 116.6  | 110.5  | 109.3  |
| 75°   | 2149.3 | 1165.9 | 418.1  | 289.8  | 179.2  | 132.6  | 117.8  | 106.8  | 101.3  | 100.0  | 99.4   |
| 77.5° | 706.0  | 534.1  | 299.0  | 216.1  | 133.2  | 103.7  | 95.1   | 87.2   | 85.9   | 89.6   | 88.4   |
| 80°   | 388.0  | 310.7  | 189.7  | 143.0  | 90.8   | 76.1   | 74.9   | 70.6   | 72.4   | 78.6   | 77.3   |
| 82.5° | 197.7  | 161.4  | 117.2  | 85.9   | 61.4   | 54.6   | 59.5   | 57.1   | 59.5   | 65.1   | 64.4   |
| 85°   | 97.6   | 88.4   | 74.3   | 52.2   | 40.5   | 35.0   | 42.4   | 44.2   | 45.4   | 49.7   | 49.7   |
| 87.5° | 56.5   | 52.2   | 39.3   | 24.6   | 20.3   | 18.4   | 24.6   | 23.9   | 28.2   | 30.7   | 30.1   |
| 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)