

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: P200296

Luminaire Tested: **GAW-AF-02-LED-E1-SL3-7050**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200296  
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-E1-SL3-7050  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 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: 12424 lumens  
Efficiency: N/A  
Efficacy: 109.9 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

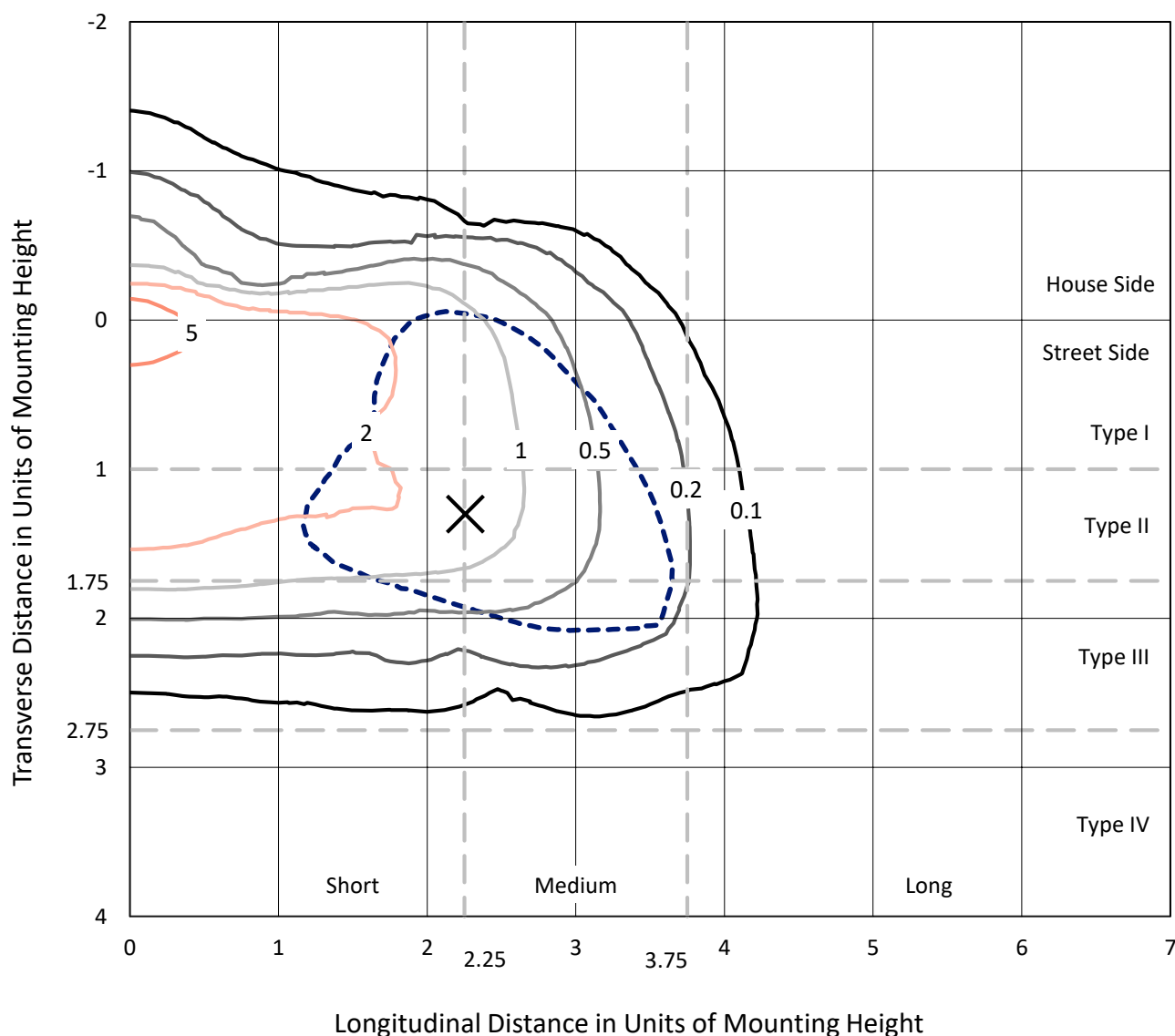


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

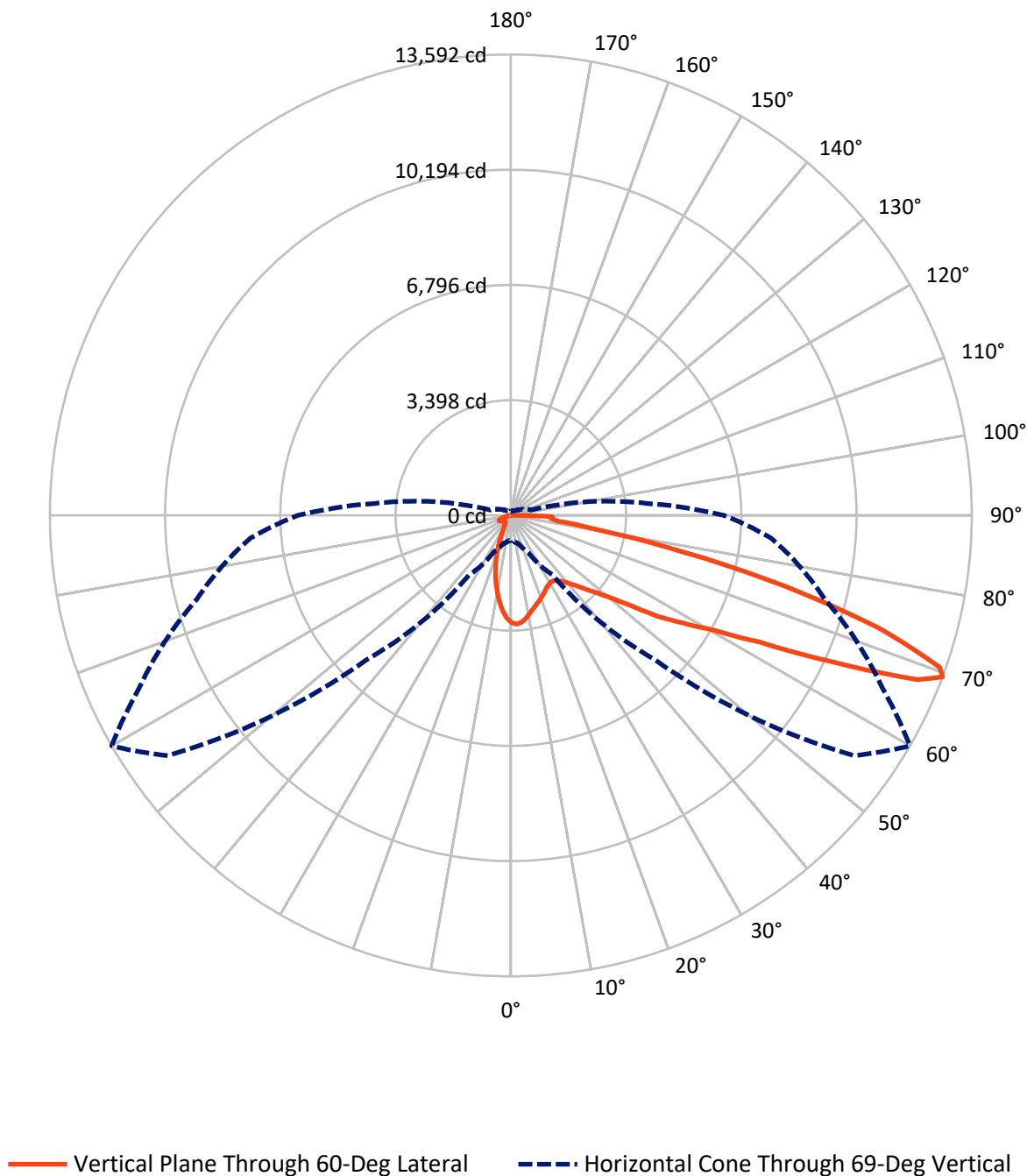


Based on 20 foot mounting height. Maximum calculated value = 7.9 fc  
 Type III - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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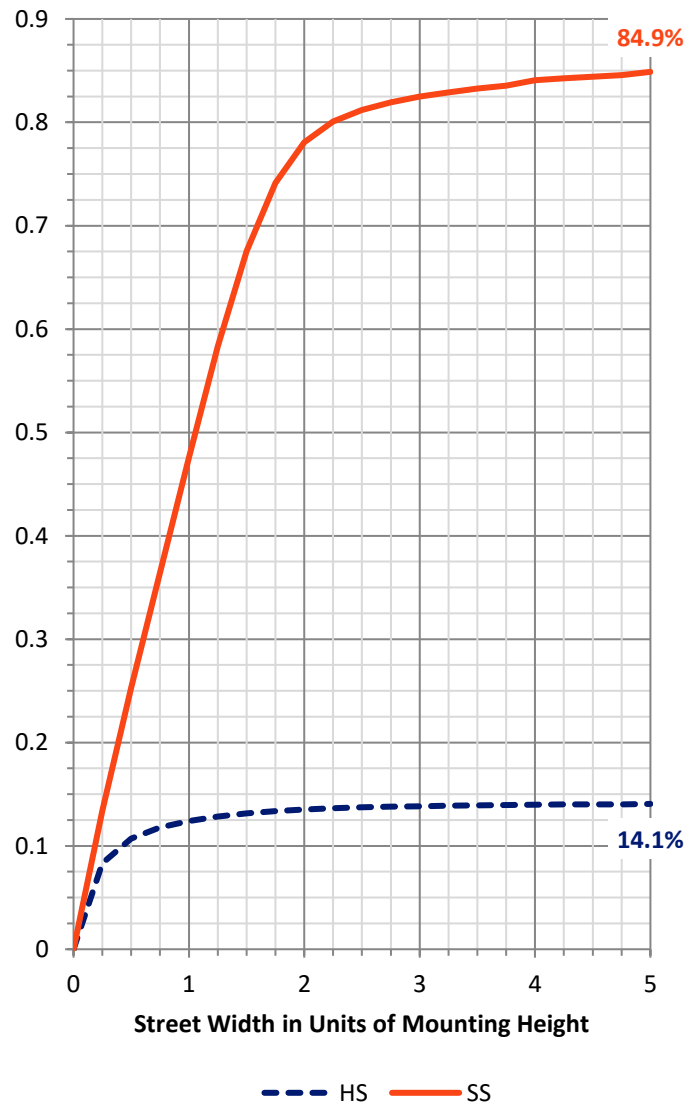
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1767.5   | 0.0    | 1767.5  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 10656.5  | 0.0    | 10656.5 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 12424.0  | 0.0    | 12424.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 267.7   | 2.2       |
| 10°-20°   | 570.3   | 4.6       |
| 20°-30°   | 726.7   | 5.8       |
| 30°-40°   | 999.0   | 8.0       |
| 40°-50°   | 1621.0  | 13.0      |
| 50°-60°   | 2599.6  | 20.9      |
| 60°-70°   | 3459.9  | 27.8      |
| 70°-80°   | 1868.1  | 15.0      |
| 80°-90°   | 311.7   | 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°    | 12424.0 | 100.0     |
| 0°-180°   | 12424.0 | 100.0     |

**Coefficient of Utilization**



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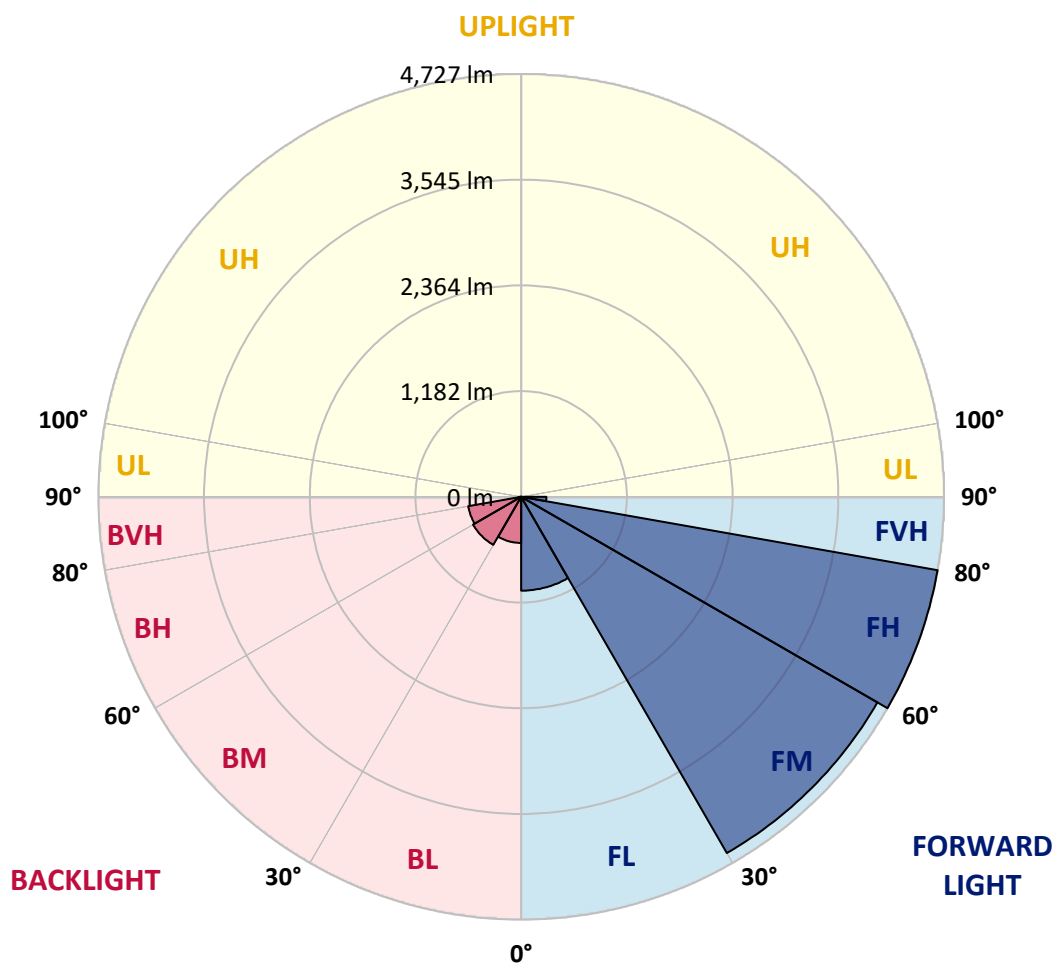
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1049.0 | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 4598.6 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 4727.1 | 38.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 281.7  | 2.3       |                         |      | G3/500  |
| BL   | (0°-30°)    | 515.6  | 4.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 621.0  | 5.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 600.9  | 4.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 30.0   | 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°    | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8  | 3165.8  | 3165.8  | 3165.8 | 3165.8 |
| 2.5°  | 3230.6 | 3237.8 | 3234.8 | 3233.0 | 3238.4 | 3230.0 | 3212.6  | 3207.2  | 3198.8  | 3179.0 | 3145.4 |
| 5°    | 3109.4 | 3131.0 | 3129.8 | 3146.0 | 3173.0 | 3180.2 | 3172.4  | 3173.6  | 3158.0  | 3133.4 | 3077.6 |
| 7.5°  | 2900.0 | 2909.0 | 2913.8 | 2949.2 | 2998.4 | 3038.0 | 3071.6  | 3082.4  | 3075.2  | 3054.2 | 2982.2 |
| 10°   | 2683.9 | 2691.1 | 2702.5 | 2743.9 | 2806.3 | 2860.9 | 2924.6  | 2961.2  | 2976.8  | 2973.2 | 2892.8 |
| 12.5° | 2498.5 | 2505.7 | 2520.7 | 2567.5 | 2641.9 | 2709.1 | 2801.5  | 2847.1  | 2884.4  | 2906.6 | 2820.1 |
| 15°   | 2332.2 | 2347.8 | 2362.2 | 2416.2 | 2499.7 | 2587.9 | 2692.3  | 2749.9  | 2807.5  | 2857.3 | 2755.9 |
| 17.5° | 2202.6 | 2218.2 | 2226.6 | 2275.8 | 2364.6 | 2472.6 | 2595.1  | 2662.9  | 2734.9  | 2816.5 | 2692.3 |
| 20°   | 2127.6 | 2134.8 | 2131.2 | 2158.8 | 2238.6 | 2353.2 | 2498.5  | 2577.1  | 2664.1  | 2778.1 | 2628.7 |
| 22.5° | 2106.5 | 2107.1 | 2093.9 | 2090.9 | 2142.6 | 2239.2 | 2395.2  | 2490.6  | 2597.5  | 2752.9 | 2574.1 |
| 25°   | 2157.6 | 2155.8 | 2119.8 | 2090.3 | 2095.7 | 2152.2 | 2295.6  | 2406.6  | 2541.7  | 2747.5 | 2532.1 |
| 27.5° | 2271.0 | 2276.4 | 2223.0 | 2167.8 | 2113.1 | 2111.3 | 2220.0  | 2337.0  | 2496.0  | 2772.1 | 2514.1 |
| 30°   | 2430.0 | 2439.0 | 2382.0 | 2311.8 | 2209.2 | 2124.6 | 2190.6  | 2295.6  | 2467.8  | 2823.1 | 2511.1 |
| 32.5° | 2604.1 | 2613.7 | 2570.5 | 2496.6 | 2362.2 | 2206.2 | 2211.0  | 2299.2  | 2466.6  | 2894.6 | 2531.5 |
| 35°   | 2789.5 | 2800.3 | 2778.1 | 2715.7 | 2566.3 | 2356.8 | 2289.0  | 2357.4  | 2505.7  | 3003.8 | 2586.1 |
| 37.5° | 2996.6 | 3013.4 | 3019.4 | 2960.0 | 2800.3 | 2555.5 | 2416.8  | 2467.8  | 2593.9  | 3155.6 | 2686.3 |
| 40°   | 3294.9 | 3318.3 | 3316.5 | 3231.2 | 3068.6 | 2823.7 | 2614.3  | 2627.5  | 2731.3  | 3358.5 | 2846.5 |
| 42.5° | 3866.2 | 3871.0 | 3721.6 | 3536.1 | 3363.9 | 3105.8 | 2847.1  | 2836.3  | 2921.0  | 3615.3 | 3082.4 |
| 45°   | 4593.0 | 4573.2 | 4240.7 | 3882.4 | 3672.4 | 3429.9 | 3150.2  | 3097.4  | 3161.6  | 3928.6 | 3377.7 |
| 47.5° | 5196.2 | 5150.5 | 4730.4 | 4235.9 | 3998.8 | 3782.2 | 3506.1  | 3413.7  | 3449.1  | 4283.9 | 3759.4 |
| 50°   | 5405.6 | 5371.4 | 5023.3 | 4530.0 | 4307.9 | 4211.9 | 3944.2  | 3813.4  | 3823.0  | 4707.6 | 4206.5 |
| 52.5° | 5360.6 | 5355.8 | 5123.5 | 4723.8 | 4597.2 | 4663.2 | 4564.8  | 4387.7  | 4294.1  | 5178.1 | 4689.0 |
| 55°   | 5254.4 | 5264.6 | 5180.5 | 4949.5 | 4927.9 | 5098.9 | 5375.6  | 5244.8  | 4953.7  | 5652.9 | 5187.8 |
| 57.5° | 4885.3 | 4911.7 | 5096.5 | 5233.4 | 5460.2 | 5714.7 | 6028.6  | 5991.4  | 5663.7  | 6166.0 | 5780.7 |
| 60°   | 3935.8 | 3997.0 | 4492.8 | 5178.1 | 6008.2 | 6804.0 | 6944.4  | 6858.0  | 6395.9  | 6802.8 | 6563.9 |
| 62.5° | 2757.7 | 2821.3 | 3410.7 | 4483.2 | 5918.1 | 8034.3 | 8581.6  | 8208.9  | 7447.3  | 7740.8 | 7577.6 |
| 65°   | 1476.4 | 1507.0 | 1957.1 | 3110.6 | 4996.3 | 8288.2 | 10974.5 | 10407.3 | 9112.2  | 8897.3 | 8444.8 |
| 67.5° | 814.4  | 831.2  | 1003.5 | 1570.6 | 3200.0 | 7298.5 | 12498.9 | 12927.4 | 11192.9 | 9667.3 | 8287.0 |
| 69°   | 736.4  | 752.0  | 864.8  | 1189.5 | 2141.4 | 6034.6 | 12350.0 | 13591.7 | 12105.2 | 9591.1 | 7703.6 |
| 70°   | 720.2  | 734.6  | 836.0  | 1096.5 | 1733.3 | 4974.1 | 11851.3 | 13421.9 | 12322.4 | 9318.0 | 7194.7 |
| 72.5° | 648.2  | 663.8  | 762.2  | 984.9  | 1481.2 | 2479.8 | 9387.6  | 11348.4 | 11187.5 | 8079.3 | 5457.2 |
| 75°   | 604.4  | 618.8  | 785.6  | 964.5  | 1418.2 | 1569.4 | 6188.8  | 8363.8  | 8223.9  | 5651.7 | 2942.6 |
| 77.5° | 258.7  | 257.5  | 364.3  | 816.2  | 1439.2 | 1519.6 | 3325.5  | 5225.0  | 4767.0  | 2415.6 | 845.0  |
| 80°   | 172.8  | 169.8  | 172.8  | 240.1  | 1319.7 | 1528.0 | 1742.3  | 2652.1  | 2003.3  | 615.8  | 416.5  |
| 82.5° | 148.8  | 146.4  | 151.8  | 146.4  | 463.9  | 1744.1 | 1481.2  | 1410.4  | 952.4   | 349.9  | 206.5  |
| 85°   | 100.2  | 96.0   | 130.8  | 131.4  | 219.1  | 1549.6 | 1668.4  | 1191.3  | 770.6   | 207.7  | 102.0  |
| 87.5° | 48.0   | 46.8   | 76.2   | 93.0   | 128.4  | 629.6  | 1871.9  | 1220.7  | 777.2   | 106.2  | 48.6   |
| 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°    | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 |
| 2.5°  | 3135.2 | 3110.6 | 3086.6 | 3057.8 | 3027.8 | 2994.2 | 2977.4 | 2960.6 | 2956.4 | 2951.6 | 2934.8 |
| 5°    | 3048.8 | 3014.0 | 2954.0 | 2888.0 | 2818.3 | 2750.5 | 2698.9 | 2666.5 | 2641.9 | 2629.3 | 2607.1 |
| 7.5°  | 2937.2 | 2886.2 | 2781.1 | 2667.1 | 2550.1 | 2443.2 | 2350.8 | 2292.6 | 2237.4 | 2211.6 | 2182.2 |
| 10°   | 2830.9 | 2754.7 | 2591.5 | 2423.4 | 2255.4 | 2093.9 | 1942.1 | 1834.7 | 1739.3 | 1685.8 | 1648.0 |
| 12.5° | 2739.7 | 2635.3 | 2409.0 | 2181.6 | 1951.1 | 1721.2 | 1493.8 | 1314.9 | 1165.5 | 1086.9 | 1046.7 |
| 15°   | 2650.9 | 2524.9 | 2235.6 | 1946.9 | 1651.0 | 1338.3 | 1039.5 | 836.6  | 713.0  | 663.8  | 647.0  |
| 17.5° | 2570.5 | 2409.0 | 2061.5 | 1710.4 | 1341.3 | 963.3  | 698.6  | 587.0  | 539.5  | 523.3  | 517.9  |
| 20°   | 2483.4 | 2292.0 | 1880.9 | 1463.2 | 1018.5 | 673.4  | 545.5  | 496.3  | 477.1  | 472.3  | 469.9  |
| 22.5° | 2399.4 | 2176.8 | 1708.0 | 1198.5 | 731.6  | 519.7  | 468.7  | 448.3  | 445.3  | 449.5  | 449.5  |
| 25°   | 2328.0 | 2073.5 | 1521.4 | 921.8  | 537.1  | 437.5  | 419.5  | 414.7  | 426.1  | 441.7  | 444.7  |
| 27.5° | 2274.6 | 1988.9 | 1322.7 | 680.6  | 427.9  | 380.5  | 379.9  | 387.7  | 415.9  | 445.9  | 451.9  |
| 30°   | 2238.0 | 1908.5 | 1110.3 | 490.9  | 358.9  | 334.9  | 344.5  | 361.3  | 402.7  | 445.3  | 456.7  |
| 32.5° | 2219.4 | 1849.1 | 888.8  | 379.9  | 307.3  | 294.1  | 310.3  | 330.7  | 371.5  | 411.1  | 426.1  |
| 35°   | 2233.8 | 1805.3 | 680.0  | 316.9  | 271.3  | 261.1  | 277.9  | 297.7  | 321.7  | 338.5  | 349.9  |
| 37.5° | 2287.8 | 1787.9 | 513.1  | 283.9  | 246.7  | 237.1  | 250.3  | 261.7  | 271.3  | 276.1  | 281.5  |
| 40°   | 2404.2 | 1806.5 | 411.1  | 267.1  | 232.9  | 220.9  | 226.3  | 230.5  | 236.5  | 241.3  | 243.7  |
| 42.5° | 2575.9 | 1862.3 | 368.5  | 260.5  | 225.7  | 208.3  | 207.1  | 208.9  | 216.7  | 225.7  | 227.5  |
| 45°   | 2815.9 | 1960.7 | 365.5  | 264.7  | 222.1  | 198.1  | 192.7  | 195.1  | 207.1  | 220.9  | 223.3  |
| 47.5° | 3122.6 | 2110.7 | 389.5  | 277.3  | 225.1  | 192.7  | 183.6  | 186.6  | 201.7  | 220.3  | 223.3  |
| 50°   | 3494.1 | 2320.2 | 429.7  | 295.9  | 238.3  | 193.9  | 180.6  | 182.4  | 198.1  | 218.5  | 221.5  |
| 52.5° | 3932.8 | 2617.3 | 473.5  | 313.9  | 252.1  | 201.7  | 183.0  | 178.8  | 193.3  | 211.3  | 214.9  |
| 55°   | 4420.8 | 2998.4 | 518.5  | 330.1  | 259.3  | 211.3  | 187.8  | 174.0  | 184.2  | 199.3  | 202.3  |
| 57.5° | 5019.7 | 3531.3 | 596.6  | 345.7  | 264.1  | 217.9  | 192.7  | 169.2  | 172.8  | 183.6  | 186.0  |
| 60°   | 5830.5 | 4285.1 | 734.0  | 371.5  | 274.9  | 220.3  | 192.0  | 165.0  | 161.4  | 167.4  | 168.6  |
| 62.5° | 6802.2 | 5103.7 | 848.6  | 403.9  | 292.9  | 222.1  | 188.4  | 162.0  | 151.8  | 151.8  | 153.0  |
| 65°   | 7378.9 | 5322.8 | 785.0  | 430.9  | 307.9  | 220.3  | 184.2  | 159.0  | 144.6  | 138.0  | 138.6  |
| 67.5° | 6889.8 | 4681.2 | 672.8  | 436.3  | 307.3  | 211.9  | 177.6  | 153.6  | 137.4  | 127.2  | 126.6  |
| 69°   | 6277.0 | 4039.1 | 622.4  | 421.9  | 292.9  | 201.1  | 169.2  | 147.6  | 132.0  | 121.2  | 120.6  |
| 70°   | 5783.1 | 3647.1 | 589.4  | 406.3  | 277.3  | 193.3  | 162.6  | 142.2  | 127.8  | 117.6  | 116.4  |
| 72.5° | 4204.7 | 2389.8 | 503.5  | 349.3  | 228.7  | 162.0  | 140.4  | 124.8  | 114.0  | 108.0  | 106.8  |
| 75°   | 2101.1 | 1139.7 | 408.7  | 283.3  | 175.2  | 129.6  | 115.2  | 104.4  | 99.0   | 97.8   | 97.2   |
| 77.5° | 690.2  | 522.1  | 292.3  | 211.3  | 130.2  | 101.4  | 93.0   | 85.2   | 84.0   | 87.6   | 86.4   |
| 80°   | 379.3  | 303.7  | 185.4  | 139.8  | 88.8   | 74.4   | 73.2   | 69.0   | 70.8   | 76.8   | 75.6   |
| 82.5° | 193.3  | 157.8  | 114.6  | 84.0   | 60.0   | 53.4   | 58.2   | 55.8   | 58.2   | 63.6   | 63.0   |
| 85°   | 95.4   | 86.4   | 72.6   | 51.0   | 39.6   | 34.2   | 41.4   | 43.2   | 44.4   | 48.6   | 48.6   |
| 87.5° | 55.2   | 51.0   | 38.4   | 24.0   | 19.8   | 18.0   | 24.0   | 23.4   | 27.6   | 30.0   | 29.4   |
| 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)