

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: P192812

Luminaire Tested: **GAN-AF-04-LED-U-SL2-7030-600**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P192812  
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: GAN-AF-04-LED-U-SL2-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 14989.3 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' 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



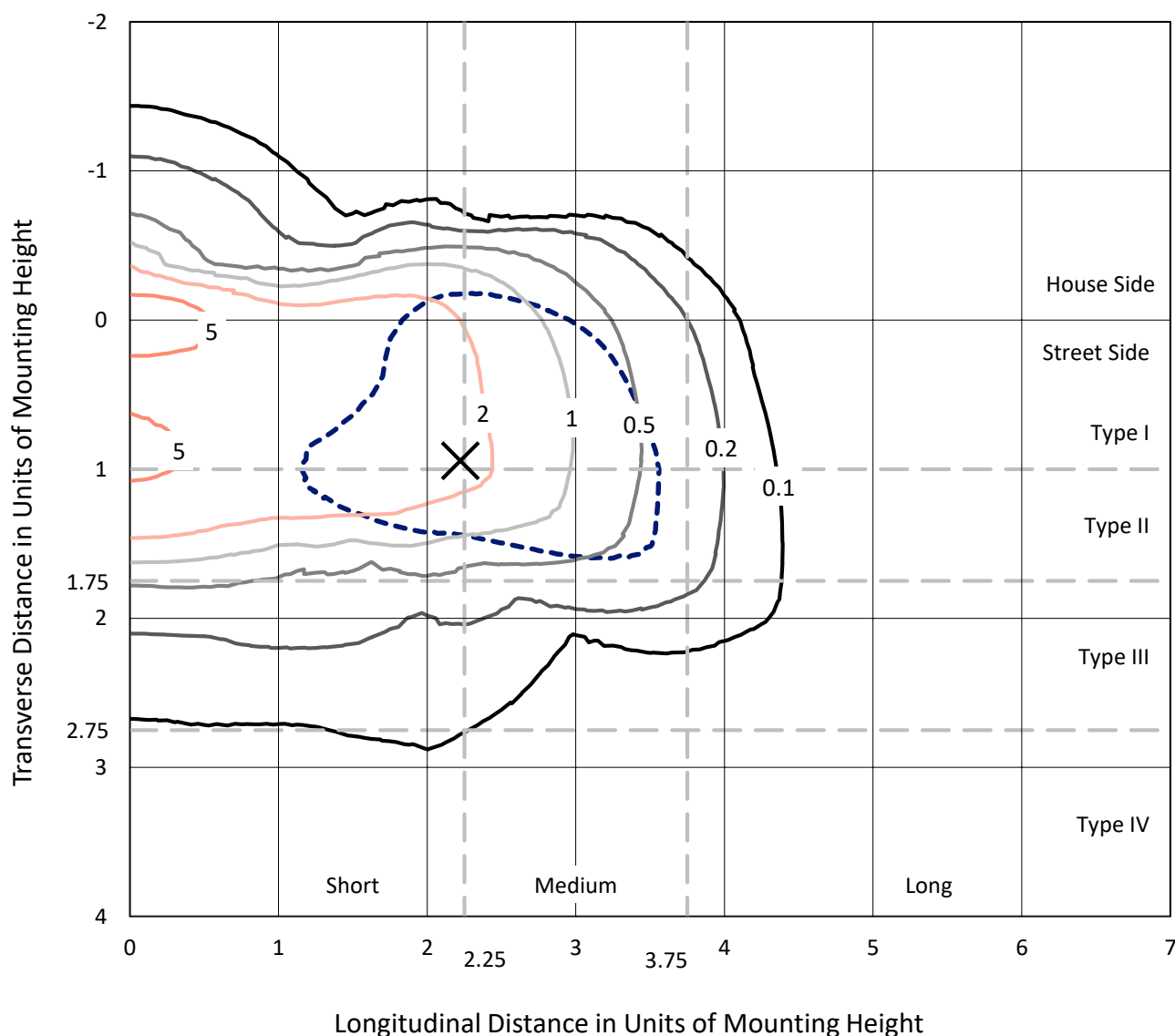
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

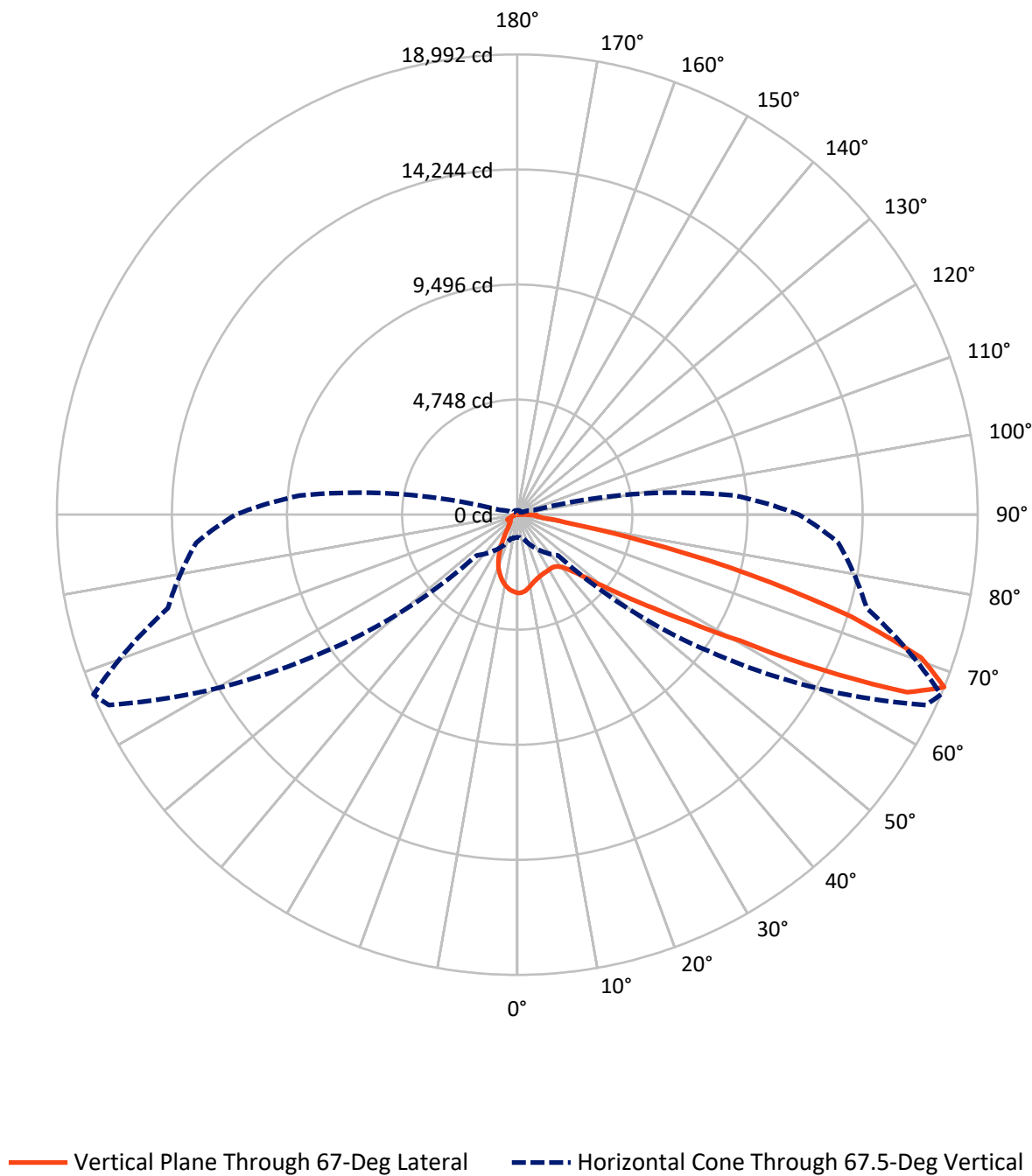


Based on 20 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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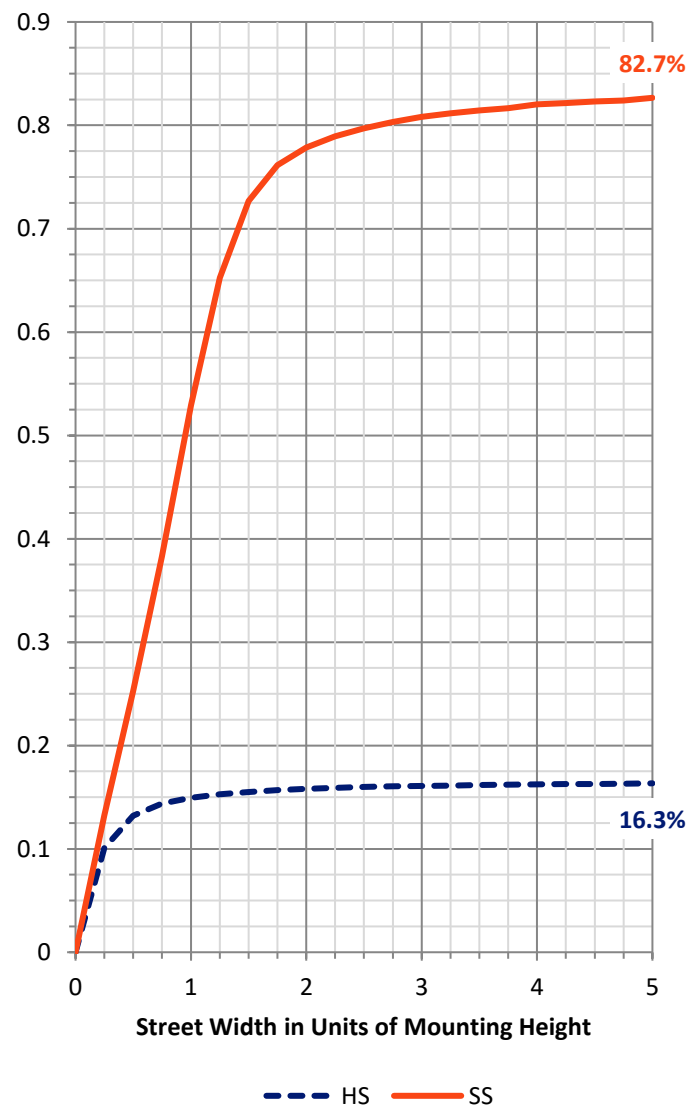
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2483.5   | 0.0    | 2483.5  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 12505.7  | 0.0    | 12505.7 |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 14989.3  | 0.0    | 14989.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 275.8   | 1.8       |
| 10°-20°   | 638.2   | 4.3       |
| 20°-30°   | 865.2   | 5.8       |
| 30°-40°   | 1229.9  | 8.2       |
| 40°-50°   | 2057.7  | 13.7      |
| 50°-60°   | 3255.2  | 21.7      |
| 60°-70°   | 4146.8  | 27.7      |
| 70°-80°   | 2172.1  | 14.5      |
| 80°-90°   | 348.4   | 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°    | 14989.3 | 100.0     |
| 0°-180°   | 14989.3 | 100.0     |

**Coefficient of Utilization**



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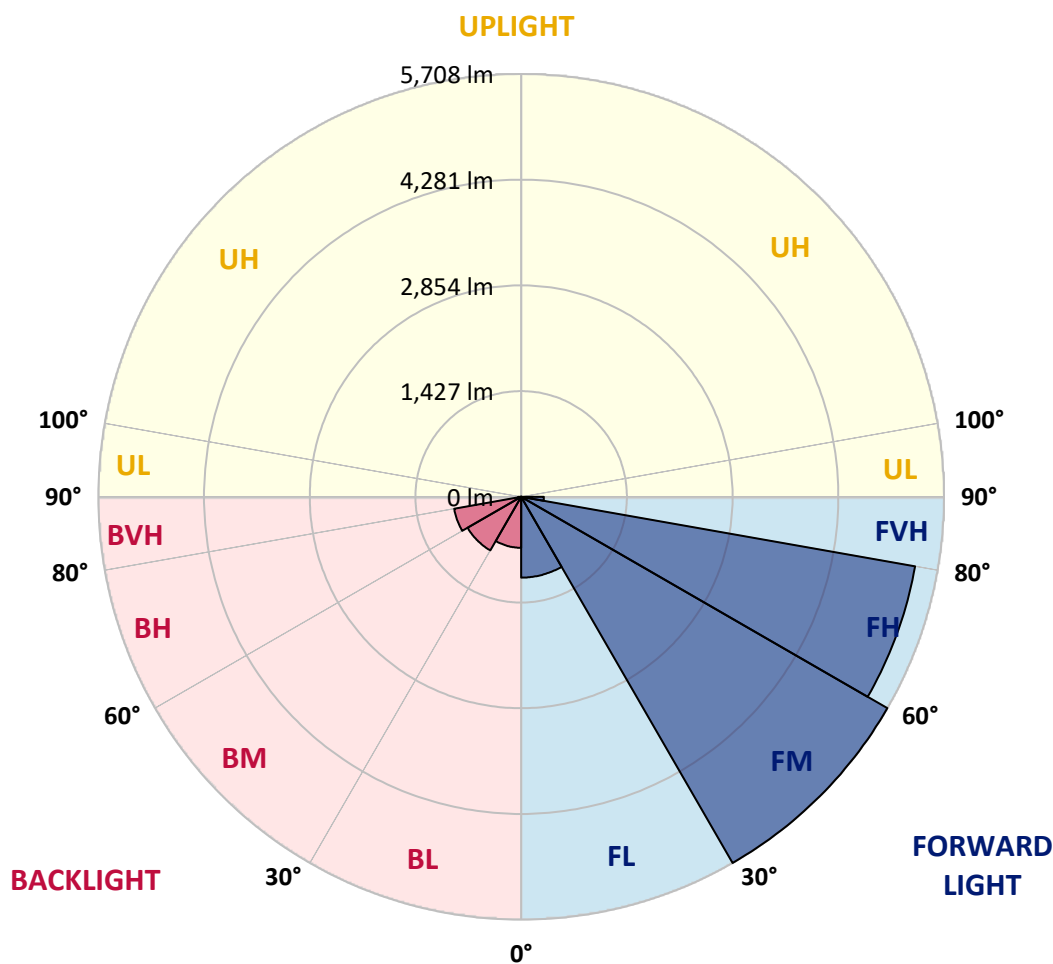
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1090.9 | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 5708.2 | 38.1      |                         |      |         |
| FH   | (60°-80°)   | 5400.3 | 36.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 306.3  | 2.0       |                         |      | G3/500  |
| BL   | (0°-30°)    | 688.4  | 4.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 834.5  | 5.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 918.6  | 6.1       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 42.1   | 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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 3233.2 | 3233.2 | 3233.2 | 3233.2 | 3233.2 | 3233.2 | 3233.2  | 3233.2  | 3233.2  | 3233.2  | 3233.2  |
| 2.5°  | 3100.1 | 3105.2 | 3121.5 | 3131.9 | 3178.5 | 3198.4 | 3212.4  | 3226.5  | 3228.7  | 3235.3  | 3228.7  |
| 5°    | 2774.8 | 2786.0 | 2816.2 | 2850.2 | 2940.3 | 3011.4 | 3086.0  | 3163.7  | 3177.7  | 3227.9  | 3242.0  |
| 7.5°  | 2522.8 | 2519.8 | 2544.9 | 2585.6 | 2678.1 | 2776.4 | 2907.2  | 3061.7  | 3091.9  | 3205.0  | 3259.7  |
| 10°   | 2338.7 | 2336.5 | 2363.2 | 2405.3 | 2493.2 | 2586.3 | 2734.2  | 2945.6  | 2988.5  | 3168.8  | 3276.8  |
| 12.5° | 2202.7 | 2203.4 | 2230.1 | 2276.6 | 2366.1 | 2460.0 | 2609.9  | 2833.3  | 2887.9  | 3126.7  | 3294.5  |
| 15°   | 2112.5 | 2118.4 | 2140.0 | 2189.4 | 2276.6 | 2370.5 | 2517.7  | 2749.0  | 2810.3  | 3093.4  | 3314.5  |
| 17.5° | 2082.3 | 2091.9 | 2099.3 | 2135.5 | 2210.1 | 2304.1 | 2448.2  | 2686.9  | 2751.9  | 3070.5  | 3332.2  |
| 20°   | 2110.4 | 2121.4 | 2107.4 | 2119.9 | 2167.2 | 2250.0 | 2393.5  | 2638.1  | 2704.6  | 3044.6  | 3334.4  |
| 22.5° | 2230.8 | 2241.1 | 2199.8 | 2163.6 | 2160.6 | 2210.9 | 2348.3  | 2599.8  | 2668.4  | 3025.4  | 3335.1  |
| 25°   | 2442.9 | 2449.6 | 2380.1 | 2295.9 | 2213.8 | 2196.8 | 2316.7  | 2573.0  | 2646.3  | 3008.5  | 3321.2  |
| 27.5° | 2703.2 | 2708.3 | 2628.6 | 2504.3 | 2339.5 | 2230.1 | 2305.5  | 2557.5  | 2633.7  | 2993.7  | 3297.5  |
| 30°   | 3019.5 | 3044.0 | 2936.8 | 2780.0 | 2539.8 | 2328.5 | 2327.7  | 2549.4  | 2619.6  | 2968.6  | 3250.9  |
| 32.5° | 3343.4 | 3353.6 | 3279.8 | 3120.8 | 2809.6 | 2501.4 | 2389.7  | 2555.3  | 2615.8  | 2938.2  | 3191.8  |
| 35°   | 3671.4 | 3684.8 | 3636.7 | 3508.9 | 3178.5 | 2754.9 | 2511.0  | 2590.1  | 2638.8  | 2927.8  | 3150.4  |
| 37.5° | 4096.4 | 4114.2 | 4047.7 | 3899.9 | 3627.1 | 3098.6 | 2712.8  | 2677.3  | 2709.1  | 2957.4  | 3137.8  |
| 40°   | 4768.4 | 4760.3 | 4565.8 | 4345.6 | 4118.0 | 3538.5 | 3001.1  | 2825.1  | 2843.6  | 3052.8  | 3176.2  |
| 42.5° | 5550.5 | 5530.4 | 5195.6 | 4849.7 | 4657.5 | 4070.7 | 3382.4  | 3081.6  | 3078.0  | 3240.5  | 3311.5  |
| 45°   | 6174.3 | 6158.1 | 5856.6 | 5429.9 | 5276.2 | 4676.8 | 3875.5  | 3463.7  | 3436.4  | 3538.5  | 3561.3  |
| 47.5° | 6512.2 | 6512.8 | 6339.1 | 5991.0 | 5987.3 | 5447.0 | 4509.0  | 4016.7  | 3969.4  | 4017.5  | 3993.0  |
| 50°   | 6393.9 | 6409.3 | 6390.9 | 6280.0 | 6636.3 | 6456.6 | 5336.1  | 4787.6  | 4692.2  | 4739.5  | 4645.7  |
| 52.5° | 5821.8 | 5841.6 | 5951.2 | 6121.1 | 6909.1 | 7677.1 | 6551.3  | 5745.6  | 5634.7  | 5617.7  | 5513.6  |
| 55°   | 4807.6 | 4832.0 | 5055.2 | 5517.1 | 6682.2 | 8496.8 | 8468.6  | 6966.7  | 6790.0  | 6629.7  | 6585.3  |
| 57.5° | 3313.8 | 3354.4 | 3713.6 | 4399.6 | 5948.2 | 8744.4 | 10751.9 | 8707.5  | 8348.3  | 7788.0  | 7798.3  |
| 60°   | 1867.9 | 1915.2 | 2338.7 | 2961.9 | 4466.8 | 8475.4 | 12489.1 | 11344.1 | 10585.7 | 9144.4  | 9221.2  |
| 62.5° | 1187.8 | 1238.9 | 1560.4 | 2057.9 | 2680.2 | 7026.6 | 13200.9 | 15009.7 | 14046.6 | 10816.3 | 10891.7 |
| 65°   | 961.7  | 983.9  | 1135.4 | 1698.7 | 1946.2 | 4233.2 | 12660.6 | 18029.2 | 17670.0 | 12938.5 | 12586.6 |
| 67.5° | 938.7  | 946.1  | 1024.6 | 1425.9 | 1866.3 | 2379.4 | 10098.7 | 18594.0 | 18992.3 | 14920.2 | 13292.6 |
| 70°   | 927.6  | 953.5  | 1154.6 | 1360.9 | 1787.4 | 2006.9 | 6068.6  | 17046.1 | 17675.2 | 15438.5 | 12353.1 |
| 72.5° | 450.1  | 448.7  | 581.0  | 1230.7 | 2013.5 | 2081.5 | 3117.8  | 13792.3 | 14423.6 | 13375.4 | 10151.1 |
| 75°   | 363.0  | 331.9  | 317.1  | 450.9  | 1935.8 | 2149.5 | 1986.9  | 9490.3  | 9947.1  | 8967.7  | 6240.2  |
| 77.5° | 344.5  | 307.4  | 281.7  | 282.3  | 818.3  | 2279.5 | 1683.1  | 5252.5  | 5385.6  | 4050.7  | 1709.7  |
| 80°   | 285.2  | 251.3  | 232.8  | 262.4  | 396.2  | 2171.0 | 1819.8  | 2377.2  | 2181.3  | 995.0   | 569.1   |
| 82.5° | 198.1  | 180.4  | 175.2  | 220.2  | 317.1  | 1547.1 | 2116.3  | 1277.2  | 1071.1  | 498.2   | 351.2   |
| 85°   | 126.4  | 107.9  | 119.7  | 160.4  | 246.9  | 714.0  | 2179.8  | 995.7   | 791.7   | 316.5   | 198.1   |
| 87.5° | 58.4   | 47.3   | 59.1   | 88.7   | 161.1  | 246.2  | 2074.2  | 1118.4  | 815.3   | 167.0   | 124.9   |
| 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°    | 3233.2  | 3233.2 | 3233.2 | 3233.2 | 3233.2 | 3233.2 | 3233.2 | 3233.2 | 3233.2 | 3233.2 | 3233.2 |
| 2.5°  | 3234.6  | 3220.6 | 3209.5 | 3188.8 | 3165.9 | 3143.7 | 3123.7 | 3098.6 | 3091.3 | 3084.6 | 3094.9 |
| 5°    | 3245.0  | 3230.9 | 3190.3 | 3126.7 | 3056.5 | 2990.8 | 2924.9 | 2868.7 | 2833.9 | 2814.7 | 2825.9 |
| 7.5°  | 3260.6  | 3240.5 | 3156.3 | 3039.5 | 2913.1 | 2797.8 | 2678.8 | 2583.4 | 2513.2 | 2479.9 | 2489.6 |
| 10°   | 3274.5  | 3236.2 | 3098.6 | 2923.4 | 2738.7 | 2567.1 | 2379.4 | 2224.2 | 2108.8 | 2048.3 | 2063.1 |
| 12.5° | 3280.5  | 3219.1 | 3018.1 | 2778.6 | 2525.0 | 2273.6 | 1997.3 | 1765.2 | 1599.5 | 1538.9 | 1526.4 |
| 15°   | 3286.4  | 3199.8 | 2929.3 | 2613.7 | 2267.0 | 1911.5 | 1524.1 | 1246.2 | 1108.8 | 1078.5 | 1071.9 |
| 17.5° | 3287.8  | 3166.7 | 2828.8 | 2434.9 | 1964.7 | 1480.6 | 1042.3 | 865.6  | 866.3  | 915.0  | 921.0  |
| 20°   | 3272.4  | 3117.0 | 2706.9 | 2212.4 | 1602.5 | 1023.8 | 715.5  | 685.2  | 796.8  | 918.8  | 933.6  |
| 22.5° | 3236.8  | 3051.3 | 2568.6 | 1952.9 | 1187.8 | 674.1  | 553.6  | 586.9  | 731.1  | 880.4  | 897.3  |
| 25°   | 3191.8  | 2971.6 | 2405.3 | 1652.1 | 786.4  | 482.0  | 464.3  | 504.9  | 602.4  | 702.2  | 711.9  |
| 27.5° | 3130.4  | 2876.9 | 2222.0 | 1307.7 | 510.8  | 396.9  | 408.7  | 436.2  | 476.1  | 520.4  | 524.8  |
| 30°   | 3051.3  | 2763.8 | 2026.1 | 953.5  | 385.9  | 357.1  | 374.0  | 388.9  | 405.8  | 430.9  | 433.1  |
| 32.5° | 2960.4  | 2655.1 | 1825.0 | 658.7  | 342.2  | 336.3  | 349.6  | 357.1  | 370.3  | 385.9  | 387.4  |
| 35°   | 2884.2  | 2551.6 | 1616.6 | 465.7  | 323.7  | 320.7  | 329.6  | 332.5  | 345.2  | 362.2  | 363.8  |
| 37.5° | 2840.6  | 2467.4 | 1401.5 | 375.6  | 311.2  | 306.8  | 311.9  | 311.9  | 329.6  | 354.8  | 358.5  |
| 40°   | 2843.6  | 2420.7 | 1186.3 | 339.2  | 300.8  | 294.9  | 295.6  | 295.6  | 318.6  | 346.0  | 348.1  |
| 42.5° | 2924.3  | 2432.6 | 995.7  | 325.3  | 292.7  | 286.0  | 282.3  | 284.6  | 303.8  | 321.6  | 323.0  |
| 45°   | 3113.5  | 2516.1 | 816.8  | 316.5  | 284.6  | 282.3  | 274.2  | 273.4  | 280.9  | 289.0  | 289.0  |
| 47.5° | 3423.8  | 2681.0 | 695.6  | 310.4  | 277.9  | 277.2  | 267.5  | 258.0  | 257.2  | 260.1  | 260.1  |
| 50°   | 3928.8  | 2964.9 | 614.2  | 303.8  | 273.4  | 267.5  | 256.5  | 241.7  | 236.5  | 238.7  | 238.7  |
| 52.5° | 4685.6  | 3471.1 | 583.2  | 294.9  | 263.9  | 254.2  | 241.7  | 226.9  | 222.5  | 223.2  | 223.2  |
| 55°   | 5678.3  | 4248.8 | 578.7  | 284.6  | 253.6  | 237.9  | 227.7  | 216.6  | 211.4  | 212.8  | 212.8  |
| 57.5° | 6891.3  | 5324.3 | 657.8  | 268.3  | 239.5  | 221.8  | 215.8  | 208.4  | 204.8  | 206.9  | 206.3  |
| 60°   | 8366.0  | 6731.7 | 975.6  | 251.3  | 225.4  | 206.9  | 206.9  | 201.0  | 198.1  | 200.3  | 199.6  |
| 62.5° | 10064.6 | 8348.3 | 1371.9 | 238.7  | 210.7  | 195.1  | 198.1  | 195.1  | 192.2  | 193.7  | 193.0  |
| 65°   | 11571.0 | 9401.5 | 1284.7 | 229.1  | 195.9  | 184.1  | 189.2  | 187.7  | 185.5  | 187.1  | 186.3  |
| 67.5° | 11614.7 | 9011.2 | 721.4  | 218.8  | 181.8  | 172.9  | 180.4  | 179.6  | 178.1  | 179.6  | 178.8  |
| 70°   | 10365.4 | 7609.1 | 406.6  | 199.6  | 167.0  | 159.6  | 170.0  | 169.3  | 167.8  | 170.8  | 170.0  |
| 72.5° | 8304.6  | 5521.6 | 297.1  | 175.9  | 152.3  | 145.7  | 157.5  | 156.7  | 156.7  | 161.1  | 159.0  |
| 75°   | 4778.8  | 2841.4 | 237.3  | 150.8  | 136.8  | 131.5  | 141.9  | 142.7  | 144.1  | 150.0  | 145.7  |
| 77.5° | 1362.4  | 885.5  | 193.7  | 127.9  | 117.6  | 115.3  | 125.6  | 127.2  | 127.9  | 134.5  | 128.6  |
| 80°   | 506.3   | 408.0  | 159.6  | 107.2  | 96.0   | 96.8   | 106.4  | 108.7  | 109.4  | 116.1  | 108.7  |
| 82.5° | 323.0   | 269.1  | 129.4  | 82.8   | 75.4   | 74.7   | 86.6   | 89.5   | 89.5   | 90.1   | 85.8   |
| 85°   | 188.5   | 161.1  | 97.6   | 59.9   | 53.2   | 51.1   | 64.4   | 69.5   | 67.3   | 65.8   | 62.9   |
| 87.5° | 126.4   | 110.9  | 59.9   | 33.3   | 28.9   | 27.4   | 37.7   | 41.4   | 39.9   | 37.7   | 35.5   |
| 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)