

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: P199968

Luminaire Tested: **GAP-AF-02-LED-U-SL3-7030-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P199968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-02-LED-U-SL3-7030-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 10264.9 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

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

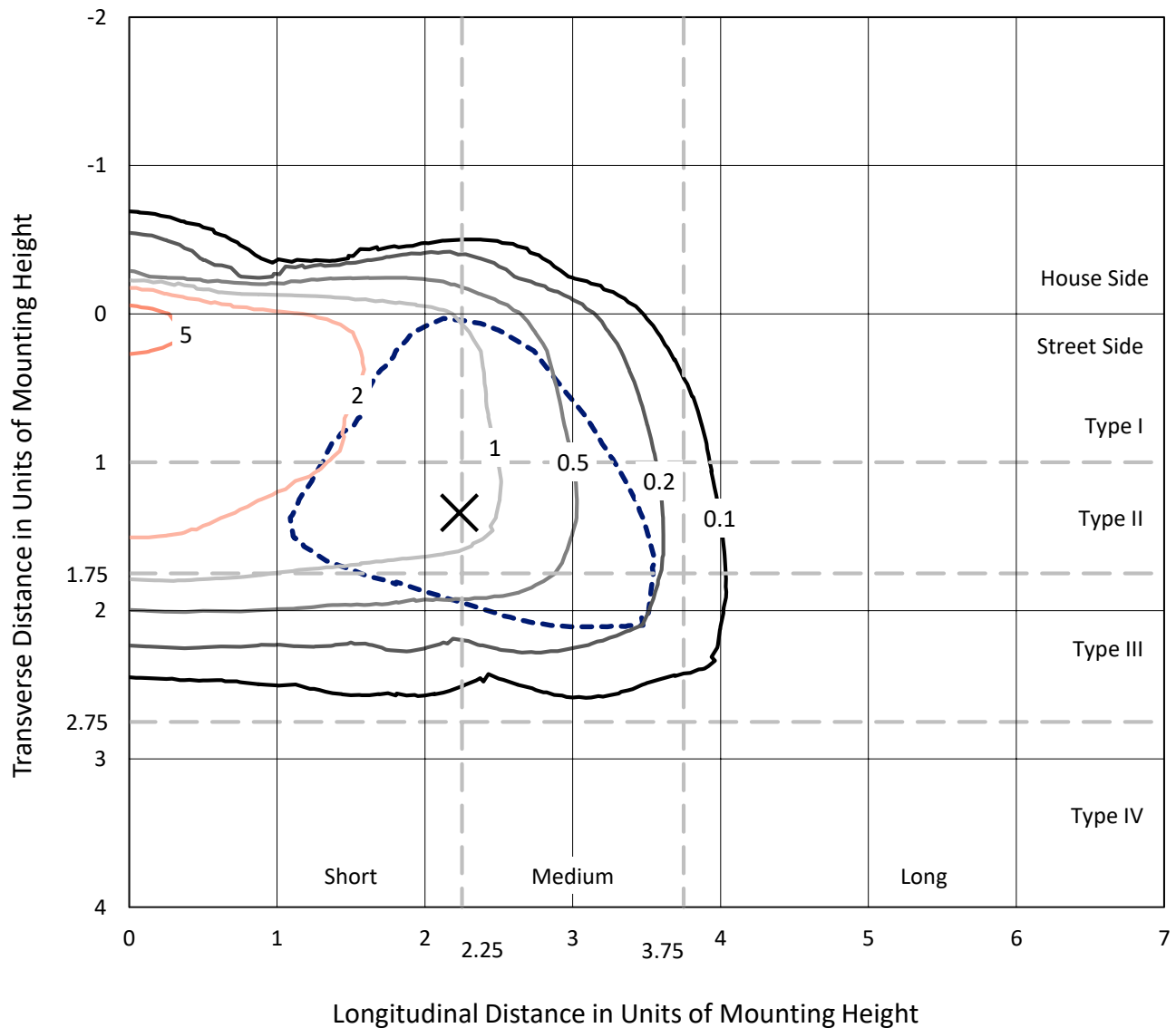


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

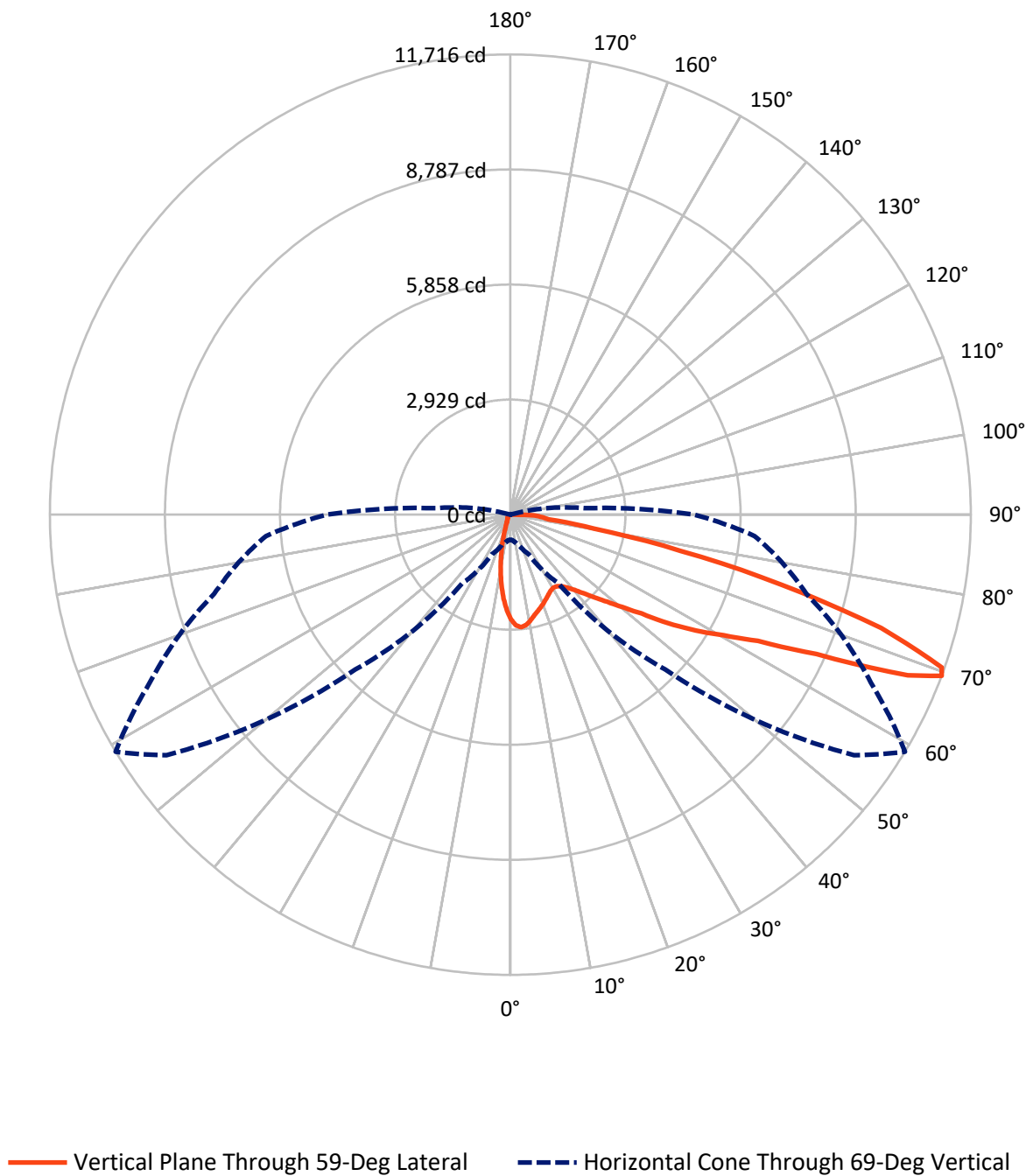


Based on 20 foot mounting height. Maximum calculated value = 6.7 fc  
Type III - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 835.9    | 0.0    | 835.9   |
|                    | % Fixture | 8.1      | 0.0    | 8.1     |
| <b>Street Side</b> | Lumens    | 9429.0   | 0.0    | 9429.0  |
|                    | % Fixture | 91.9     | 0.0    | 91.9    |
| <b>Total</b>       | Lumens    | 10264.9  | 0.0    | 10264.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 216.9   | 2.1       |
| 10°-20°   | 448.1   | 4.4       |
| 20°-30°   | 603.0   | 5.9       |
| 30°-40°   | 875.5   | 8.5       |
| 40°-50°   | 1457.8  | 14.2      |
| 50°-60°   | 2274.1  | 22.2      |
| 60°-70°   | 2814.1  | 27.4      |
| 70°-80°   | 1426.1  | 13.9      |
| 80°-90°   | 149.2   | 1.5       |
| 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°    | 10264.9 | 100.0     |
| 0°-180°   | 10264.9 | 100.0     |

**Coefficient of Utilization**



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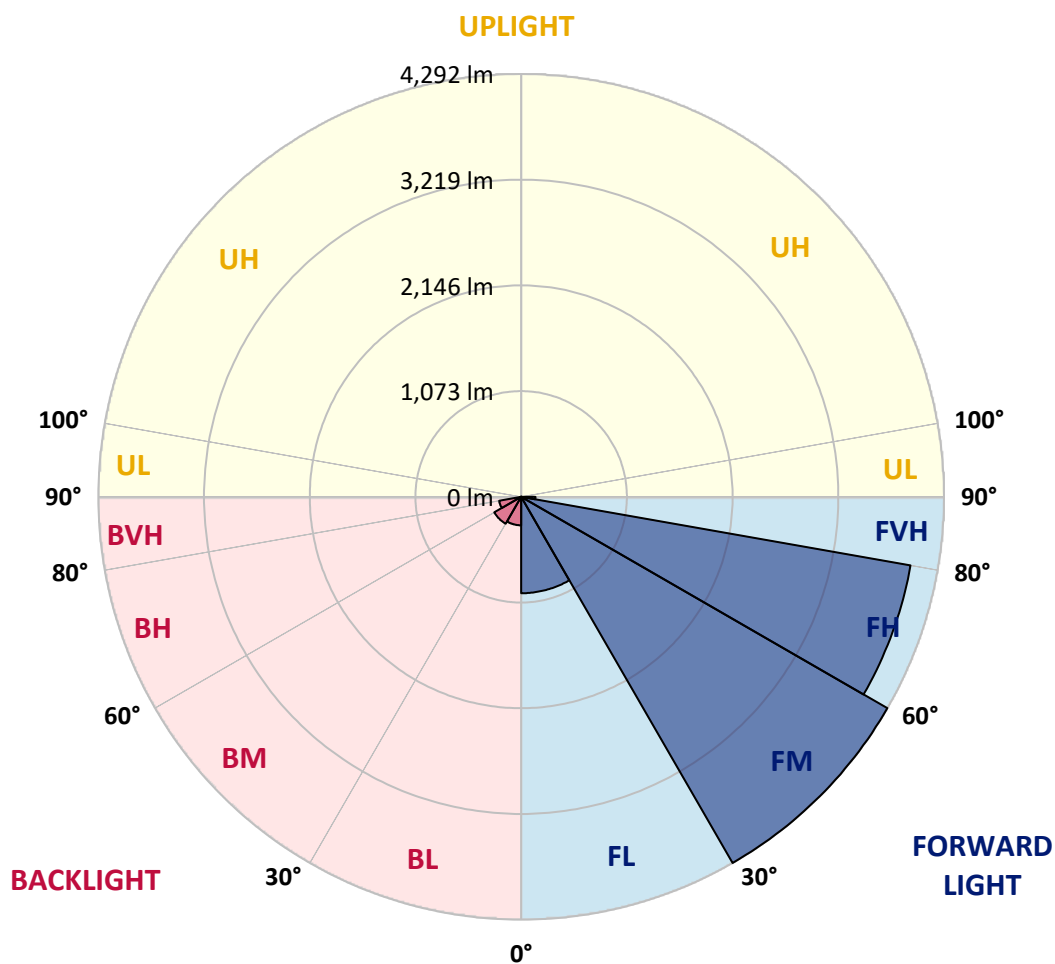
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 978.6  | 9.5       |                         |      |         |
| FM   | (30°-60°)   | 4292.5 | 41.8      |                         |      |         |
| FH   | (60°-80°)   | 4013.2 | 39.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 144.6  | 1.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 289.3  | 2.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 315.0  | 3.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 227.0  | 2.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 4.6    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 59°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0°    | 2671.8 | 2671.8 | 2671.8 | 2671.8 | 2671.8 | 2671.8 | 2671.8  | 2671.8  | 2671.8  | 2671.8 | 2671.8 |
| 2.5°  | 2928.3 | 2927.2 | 2914.5 | 2908.6 | 2898.2 | 2876.1 | 2841.9  | 2824.0  | 2794.9  | 2744.4 | 2676.5 |
| 5°    | 2901.7 | 2915.6 | 2923.1 | 2923.8 | 2931.3 | 2923.1 | 2892.4  | 2877.4  | 2837.3  | 2755.9 | 2634.1 |
| 7.5°  | 2720.5 | 2725.8 | 2747.4 | 2765.9 | 2801.9 | 2836.1 | 2847.1  | 2840.7  | 2816.9  | 2729.9 | 2567.9 |
| 10°   | 2526.7 | 2532.0 | 2557.4 | 2581.8 | 2630.6 | 2683.4 | 2739.1  | 2750.7  | 2760.7  | 2692.7 | 2504.1 |
| 12.5° | 2359.6 | 2364.8 | 2390.9 | 2422.9 | 2479.6 | 2544.6 | 2631.2  | 2650.3  | 2693.9  | 2657.3 | 2453.0 |
| 15°   | 2215.6 | 2217.9 | 2243.4 | 2282.9 | 2350.8 | 2434.4 | 2532.5  | 2563.2  | 2630.0  | 2632.4 | 2408.3 |
| 17.5° | 2093.1 | 2098.9 | 2114.6 | 2152.3 | 2226.6 | 2330.0 | 2444.2  | 2488.4  | 2566.7  | 2611.4 | 2364.8 |
| 20°   | 2018.2 | 2024.0 | 2023.5 | 2044.4 | 2111.1 | 2221.3 | 2356.0  | 2408.8  | 2504.1  | 2590.0 | 2325.9 |
| 22.5° | 2003.7 | 2003.7 | 1988.6 | 1985.7 | 2025.2 | 2117.5 | 2264.3  | 2328.8  | 2447.7  | 2580.7 | 2298.6 |
| 25°   | 2055.3 | 2053.1 | 2015.3 | 1984.5 | 1986.4 | 2041.4 | 2175.6  | 2252.2  | 2400.2  | 2587.0 | 2284.1 |
| 27.5° | 2164.5 | 2161.5 | 2113.9 | 2055.3 | 2008.4 | 2007.7 | 2108.1  | 2190.6  | 2362.4  | 2617.3 | 2289.8 |
| 30°   | 2315.4 | 2314.2 | 2262.6 | 2188.9 | 2103.6 | 2025.2 | 2085.0  | 2159.8  | 2338.0  | 2671.8 | 2303.1 |
| 32.5° | 2480.3 | 2478.5 | 2439.6 | 2361.8 | 2253.9 | 2103.6 | 2109.4  | 2172.1  | 2345.0  | 2744.4 | 2335.8 |
| 35°   | 2655.0 | 2652.0 | 2635.3 | 2567.4 | 2448.4 | 2248.1 | 2189.4  | 2238.1  | 2389.2  | 2852.9 | 2399.6 |
| 37.5° | 2844.2 | 2847.1 | 2859.4 | 2794.3 | 2669.5 | 2450.6 | 2323.5  | 2356.6  | 2477.9  | 3000.4 | 2503.4 |
| 40°   | 3123.4 | 3122.8 | 3126.9 | 3041.6 | 2921.4 | 2698.4 | 2511.0  | 2521.4  | 2626.6  | 3196.0 | 2661.3 |
| 42.5° | 3630.1 | 3594.7 | 3487.3 | 3313.2 | 3192.4 | 2981.8 | 2747.4  | 2736.3  | 2808.2  | 3438.1 | 2882.5 |
| 45°   | 4311.1 | 4235.6 | 3957.0 | 3623.1 | 3468.8 | 3301.0 | 3038.1  | 3002.7  | 3048.6  | 3728.8 | 3155.3 |
| 47.5° | 4896.7 | 4818.4 | 4424.2 | 3945.9 | 3761.9 | 3604.0 | 3378.9  | 3314.9  | 3330.0  | 4054.4 | 3501.3 |
| 50°   | 5095.8 | 5057.5 | 4713.2 | 4226.8 | 4045.8 | 3985.3 | 3774.2  | 3696.3  | 3674.8  | 4431.1 | 3902.4 |
| 52.5° | 5026.7 | 5023.8 | 4794.6 | 4409.0 | 4305.8 | 4380.1 | 4271.5  | 4181.6  | 4102.5  | 4828.1 | 4310.4 |
| 55°   | 4915.8 | 4930.4 | 4827.6 | 4568.6 | 4565.3 | 4740.5 | 4951.8  | 4876.9  | 4648.2  | 5259.4 | 4662.2 |
| 57.5° | 4609.9 | 4672.0 | 4809.0 | 4870.6 | 5013.4 | 5192.6 | 5518.3  | 5562.5  | 5292.0  | 5589.7 | 4954.2 |
| 60°   | 3740.4 | 3876.8 | 4324.9 | 4914.1 | 5590.9 | 6037.8 | 6202.1  | 6239.8  | 5820.1  | 5864.3 | 5348.2 |
| 62.5° | 2655.0 | 2794.3 | 3362.6 | 4359.2 | 5599.6 | 7148.3 | 7220.8  | 7072.8  | 6401.8  | 6271.2 | 6028.0 |
| 65°   | 1409.3 | 1516.7 | 1981.1 | 3146.6 | 4854.9 | 7405.9 | 9002.2  | 8561.0  | 7428.0  | 7071.6 | 6906.2 |
| 67.5° | 720.9  | 753.5  | 938.0  | 1539.9 | 3337.6 | 6578.3 | 10599.0 | 10909.5 | 9196.7  | 7865.7 | 6863.7 |
| 69°   | 638.0  | 657.0  | 779.6  | 1113.4 | 2137.2 | 5571.7 | 10676.9 | 11715.8 | 10122.5 | 7799.5 | 6237.5 |
| 70°   | 617.7  | 634.5  | 745.9  | 1007.7 | 1670.6 | 4672.6 | 10379.1 | 11645.0 | 10359.3 | 7547.6 | 5769.7 |
| 72.5° | 524.1  | 538.6  | 664.1  | 890.5  | 1357.6 | 2319.5 | 8431.0  | 9867.6  | 9295.9  | 6287.5 | 4176.3 |
| 75°   | 350.6  | 398.1  | 637.3  | 834.7  | 1263.0 | 1317.6 | 5558.3  | 7130.8  | 6624.1  | 4240.8 | 2175.6 |
| 77.5° | 84.1   | 90.5   | 180.0  | 664.1  | 1155.1 | 1159.8 | 2858.8  | 4432.8  | 3615.6  | 1511.5 | 514.3  |
| 80°   | 45.3   | 43.4   | 50.5   | 131.7  | 1075.5 | 1088.3 | 1286.8  | 2151.8  | 1290.9  | 250.7  | 169.5  |
| 82.5° | 31.9   | 30.1   | 32.6   | 55.1   | 338.3  | 991.4  | 931.0   | 974.0   | 535.2   | 96.3   | 76.1   |
| 85°   | 11.6   | 11.0   | 18.0   | 49.9   | 106.2  | 570.0  | 956.6   | 803.4   | 433.6   | 44.1   | 55.7   |
| 87.5° | 4.1    | 3.5    | 7.0    | 27.4   | 32.6   | 242.7  | 590.3   | 607.2   | 170.7   | 26.7   | 26.1   |
| 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°    | 2671.8 | 2671.8 | 2671.8 | 2671.8 | 2671.8 | 2671.8 | 2671.8 | 2671.8 | 2671.8 | 2671.8 | 2671.8 |
| 2.5°  | 2648.0 | 2612.1 | 2545.8 | 2477.9 | 2415.2 | 2339.8 | 2302.1 | 2265.0 | 2249.2 | 2243.4 | 2216.1 |
| 5°    | 2571.4 | 2510.4 | 2370.0 | 2228.9 | 2098.9 | 1960.7 | 1869.7 | 1796.4 | 1753.5 | 1732.7 | 1699.5 |
| 7.5°  | 2473.3 | 2373.4 | 2160.4 | 1942.7 | 1740.2 | 1540.5 | 1392.5 | 1278.8 | 1200.3 | 1162.6 | 1128.4 |
| 10°   | 2378.1 | 2245.2 | 1942.2 | 1645.6 | 1370.4 | 1105.7 | 901.4  | 753.5  | 658.9  | 615.2  | 587.4  |
| 12.5° | 2292.8 | 2120.4 | 1731.4 | 1355.9 | 1010.5 | 700.6  | 492.8  | 375.0  | 316.3  | 296.0  | 286.2  |
| 15°   | 2216.8 | 2005.5 | 1532.4 | 1080.8 | 684.4  | 400.6  | 269.4  | 229.2  | 219.9  | 219.9  | 218.8  |
| 17.5° | 2144.8 | 1892.8 | 1340.3 | 822.5  | 429.5  | 245.0  | 204.9  | 199.7  | 199.7  | 202.0  | 202.0  |
| 20°   | 2075.7 | 1785.6 | 1154.6 | 590.3  | 270.5  | 194.5  | 185.2  | 184.0  | 185.2  | 188.0  | 188.0  |
| 22.5° | 2016.5 | 1687.9 | 980.9  | 405.2  | 200.8  | 175.3  | 170.7  | 169.0  | 169.5  | 171.2  | 172.4  |
| 25°   | 1972.3 | 1605.6 | 817.3  | 274.6  | 172.9  | 159.6  | 154.4  | 151.6  | 149.1  | 149.1  | 150.3  |
| 27.5° | 1944.5 | 1535.8 | 658.9  | 199.7  | 155.5  | 145.1  | 137.0  | 132.3  | 127.1  | 124.2  | 125.4  |
| 30°   | 1924.2 | 1469.6 | 510.2  | 163.2  | 139.3  | 128.8  | 118.4  | 110.9  | 103.4  | 99.9   | 100.9  |
| 32.5° | 1916.6 | 1416.3 | 381.4  | 144.0  | 124.8  | 113.2  | 100.4  | 90.5   | 82.4   | 79.5   | 80.1   |
| 35°   | 1936.9 | 1373.9 | 279.1  | 130.0  | 113.2  | 98.7   | 84.1   | 73.1   | 66.7   | 65.0   | 65.5   |
| 37.5° | 1990.3 | 1351.3 | 209.0  | 118.4  | 102.7  | 86.6   | 70.3   | 59.8   | 55.7   | 55.7   | 56.3   |
| 40°   | 2091.3 | 1350.7 | 167.7  | 110.3  | 93.4   | 74.9   | 58.0   | 50.5   | 48.2   | 49.3   | 49.9   |
| 42.5° | 2238.8 | 1381.5 | 146.3  | 102.7  | 85.3   | 63.8   | 48.2   | 42.9   | 42.4   | 43.4   | 44.1   |
| 45°   | 2440.2 | 1437.8 | 134.7  | 96.3   | 76.6   | 53.4   | 40.7   | 37.1   | 37.1   | 38.9   | 39.5   |
| 47.5° | 2686.9 | 1520.3 | 124.8  | 89.9   | 68.0   | 44.7   | 34.9   | 32.6   | 33.1   | 34.9   | 35.4   |
| 50°   | 2984.1 | 1624.1 | 114.9  | 83.0   | 61.5   | 37.1   | 30.1   | 28.4   | 29.1   | 31.3   | 31.9   |
| 52.5° | 3322.5 | 1764.0 | 106.8  | 76.6   | 53.4   | 30.8   | 25.5   | 24.4   | 25.5   | 27.9   | 28.4   |
| 55°   | 3612.7 | 1889.4 | 96.9   | 71.3   | 42.9   | 25.5   | 20.9   | 20.9   | 22.1   | 24.9   | 25.5   |
| 57.5° | 3892.0 | 2020.5 | 88.3   | 61.5   | 33.7   | 20.3   | 17.4   | 18.0   | 19.7   | 22.6   | 23.3   |
| 60°   | 4301.7 | 2242.9 | 77.8   | 51.7   | 25.5   | 16.3   | 14.5   | 15.1   | 17.4   | 20.3   | 20.9   |
| 62.5° | 4997.6 | 2581.2 | 67.3   | 42.9   | 19.7   | 12.8   | 11.6   | 12.8   | 15.7   | 19.1   | 19.7   |
| 65°   | 5625.8 | 2718.8 | 55.1   | 35.9   | 15.1   | 9.9    | 9.9    | 11.6   | 15.1   | 18.6   | 19.1   |
| 67.5° | 5275.7 | 2288.8 | 42.9   | 28.4   | 11.6   | 7.5    | 8.0    | 11.0   | 14.5   | 18.6   | 19.1   |
| 69°   | 4665.7 | 1871.4 | 36.6   | 22.6   | 9.9    | 7.0    | 7.5    | 11.0   | 14.5   | 18.0   | 18.6   |
| 70°   | 4190.3 | 1580.0 | 32.6   | 19.1   | 8.7    | 7.0    | 7.5    | 10.5   | 14.5   | 18.0   | 18.6   |
| 72.5° | 2806.5 | 853.4  | 26.1   | 13.9   | 8.0    | 6.3    | 6.3    | 10.5   | 13.9   | 17.4   | 18.0   |
| 75°   | 1206.2 | 235.7  | 20.9   | 9.9    | 7.0    | 5.8    | 5.8    | 9.9    | 13.3   | 16.8   | 18.0   |
| 77.5° | 220.6  | 59.8   | 16.8   | 8.7    | 7.0    | 5.8    | 5.3    | 9.3    | 12.8   | 16.3   | 16.8   |
| 80°   | 87.6   | 29.6   | 13.3   | 7.5    | 6.3    | 5.3    | 4.7    | 8.7    | 12.2   | 15.7   | 16.3   |
| 82.5° | 52.8   | 16.8   | 11.0   | 7.0    | 6.3    | 4.7    | 4.1    | 7.5    | 11.6   | 15.1   | 15.7   |
| 85°   | 42.9   | 11.6   | 8.7    | 7.0    | 5.8    | 4.7    | 3.5    | 7.0    | 10.5   | 14.5   | 15.1   |
| 87.5° | 20.9   | 8.0    | 8.0    | 6.3    | 5.8    | 4.7    | 3.5    | 6.3    | 9.9    | 13.9   | 14.5   |
| 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)