

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: P193246

Luminaire Tested: **GAN-AF-08-LED-U-T3R-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193246  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-08-LED-U-T3R-7030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51749.6 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

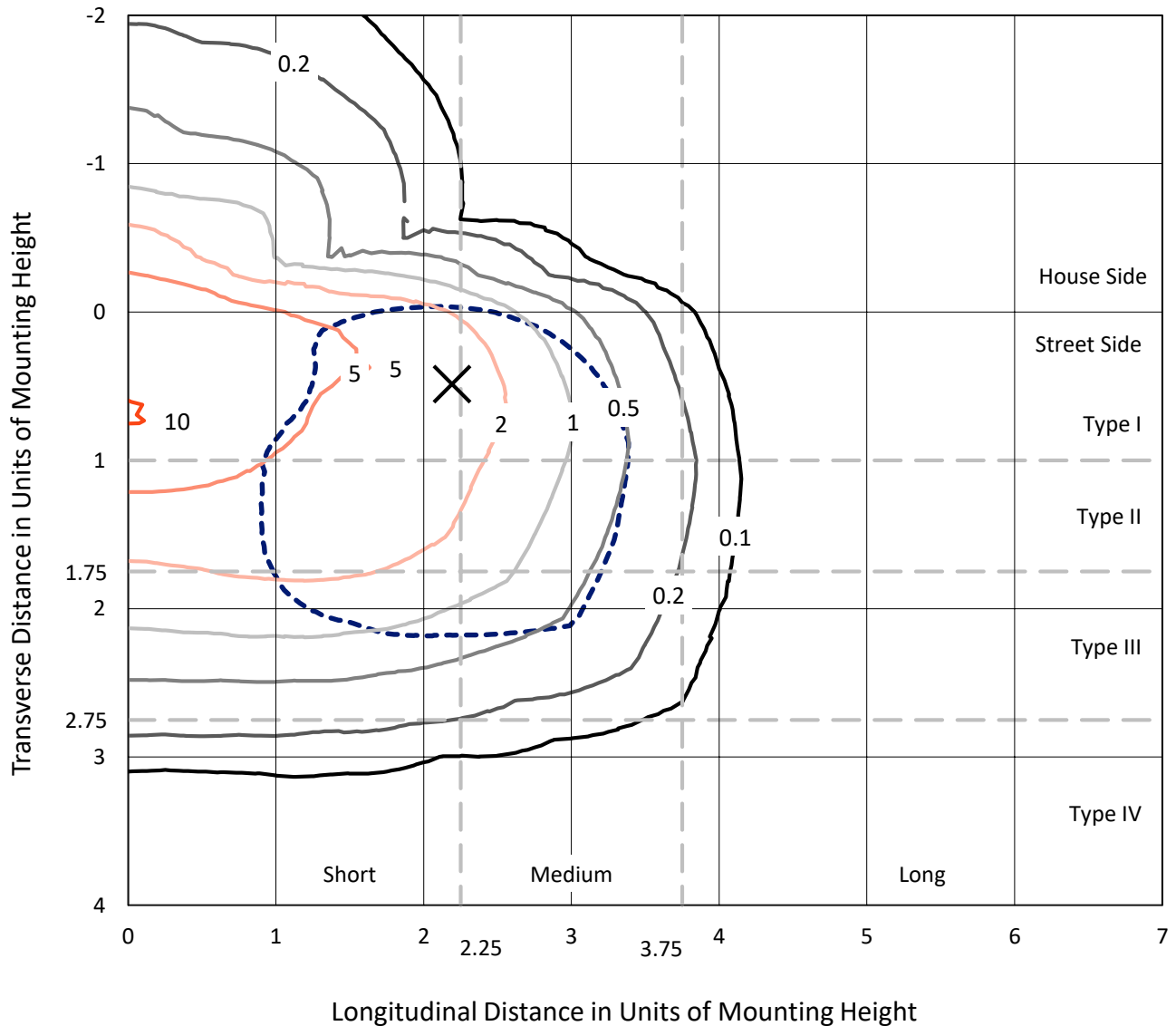


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

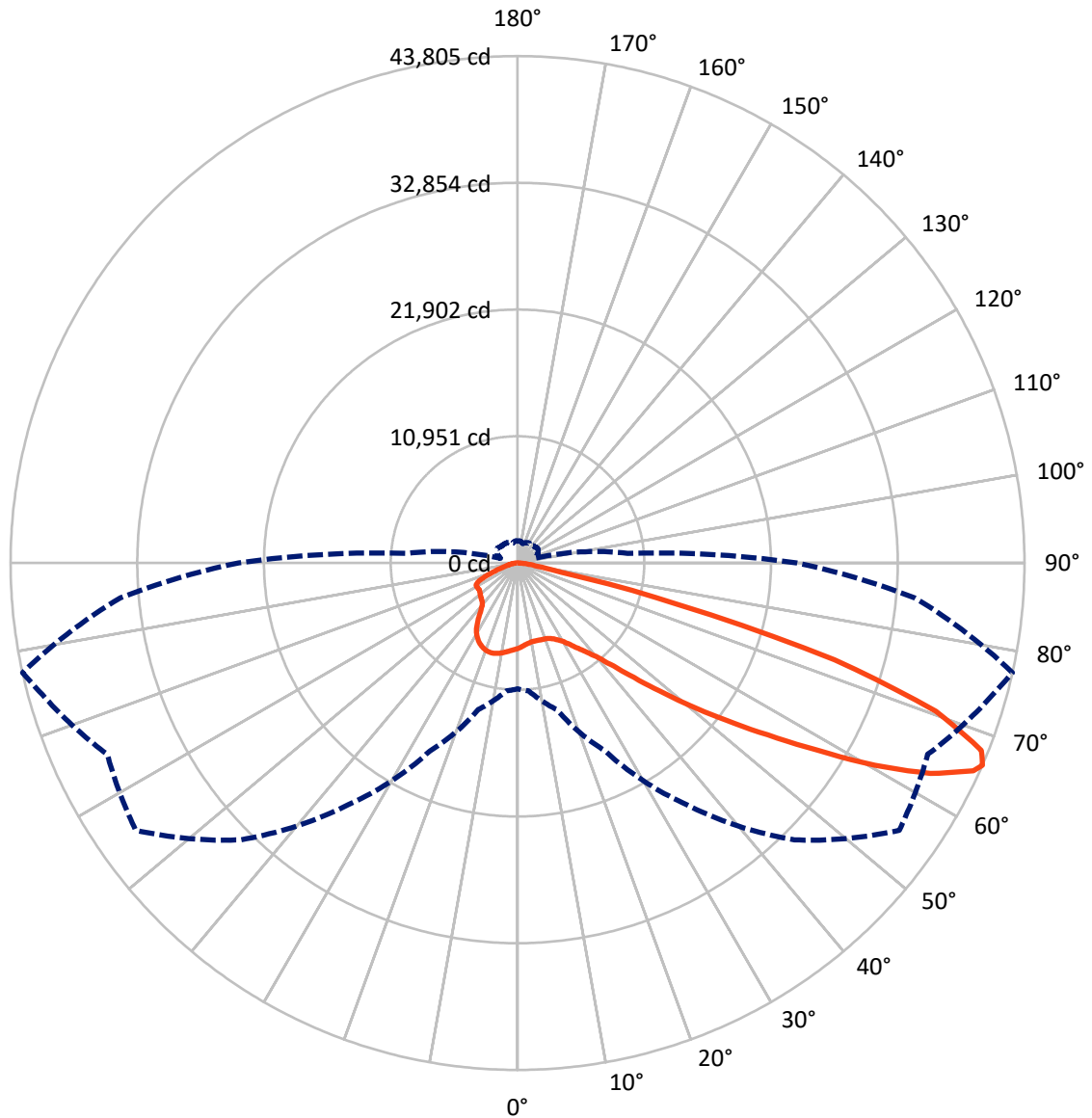


Based on 30 foot mounting height. Maximum calculated value = 10.1 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8841.1   | 0.0    | 8841.1  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 42908.5  | 0.0    | 42908.5 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 51749.6  | 0.0    | 51749.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 658.9   | 1.3       |
| 10°-20°   | 1858.7  | 3.6       |
| 20°-30°   | 3172.2  | 6.1       |
| 30°-40°   | 5078.2  | 9.8       |
| 40°-50°   | 7845.3  | 15.2      |
| 50°-60°   | 11127.3 | 21.5      |
| 60°-70°   | 14885.4 | 28.8      |
| 70°-80°   | 6464.4  | 12.5      |
| 80°-90°   | 659.2   | 1.3       |
| 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°    | 51749.6 | 100.0     |
| 0°-180°   | 51749.6 | 100.0     |

**Coefficient of Utilization**



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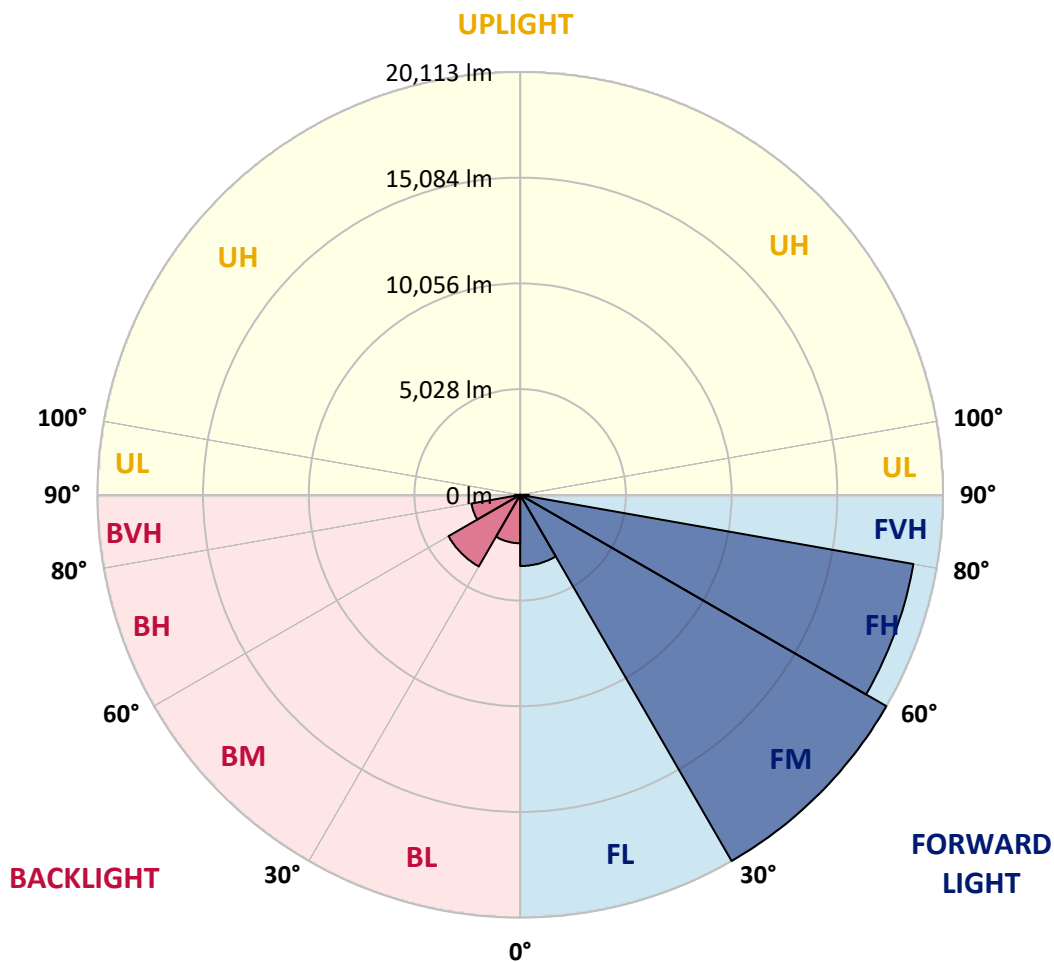
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3387.2  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 20112.6 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 18995.2 | 36.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 413.4   | 0.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2302.6  | 4.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3938.2  | 7.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2354.5  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 245.8   | 0.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77.5°   | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7374.6  | 7374.6  | 7374.6  | 7374.6  | 7374.6  | 7374.6  | 7374.6  | 7374.6  | 7374.6  | 7374.6  | 7374.6  |
| 2.5°  | 6523.7  | 6567.7  | 6604.2  | 6638.6  | 6707.0  | 6819.5  | 6949.1  | 7054.3  | 7205.8  | 7235.1  | 7315.9  |
| 5°    | 5924.6  | 5924.6  | 5954.0  | 6005.3  | 6098.2  | 6266.9  | 6442.9  | 6677.7  | 7007.8  | 7086.0  | 7301.2  |
| 7.5°  | 5633.6  | 5636.0  | 5653.2  | 5697.3  | 5777.8  | 5931.9  | 6125.1  | 6401.4  | 6848.8  | 6978.5  | 7345.2  |
| 10°   | 5741.2  | 5716.8  | 5680.1  | 5658.1  | 5670.3  | 5760.8  | 5944.1  | 6252.3  | 6751.0  | 6917.3  | 7443.1  |
| 12.5° | 6342.7  | 6296.3  | 6169.1  | 6000.4  | 5839.1  | 5773.0  | 5880.6  | 6181.4  | 6709.5  | 6902.7  | 7572.6  |
| 15°   | 7325.7  | 7306.0  | 7069.0  | 6719.2  | 6328.1  | 6000.4  | 5927.0  | 6154.5  | 6714.4  | 6919.7  | 7726.7  |
| 17.5° | 8558.1  | 8531.1  | 8218.2  | 7709.6  | 7071.4  | 6433.1  | 6090.8  | 6176.4  | 6731.5  | 6949.1  | 7875.9  |
| 20°   | 9802.6  | 9719.4  | 9382.0  | 8775.6  | 7956.5  | 7022.4  | 6362.2  | 6232.7  | 6753.6  | 6980.9  | 8032.3  |
| 22.5° | 10731.8 | 10663.2 | 10360.1 | 9770.8  | 8826.9  | 7704.6  | 6726.5  | 6330.5  | 6824.5  | 7073.8  | 8225.5  |
| 25°   | 11548.3 | 11553.3 | 11252.6 | 10682.9 | 9707.2  | 8428.4  | 7196.1  | 6592.1  | 7005.3  | 7264.5  | 8489.6  |
| 27.5° | 12558.3 | 12499.6 | 12218.4 | 11653.6 | 10577.7 | 9159.5  | 7763.3  | 6951.5  | 7274.3  | 7535.9  | 8836.8  |
| 30°   | 13766.1 | 13724.6 | 13399.4 | 12758.7 | 11543.6 | 9944.4  | 8411.4  | 7369.6  | 7621.5  | 7892.9  | 9291.5  |
| 32.5° | 15186.8 | 15167.3 | 14829.8 | 14005.8 | 12658.6 | 10868.7 | 9171.8  | 7922.3  | 8140.0  | 8421.0  | 9944.4  |
| 35°   | 16854.4 | 16856.8 | 16458.3 | 15468.0 | 13878.6 | 11944.6 | 10034.9 | 8633.7  | 8770.8  | 9064.1  | 10721.9 |
| 37.5° | 17881.4 | 18006.0 | 17856.9 | 16847.0 | 15260.1 | 13147.5 | 11154.8 | 9577.6  | 9489.6  | 9785.5  | 11555.8 |
| 40°   | 18101.4 | 18253.0 | 18725.0 | 18211.5 | 16805.5 | 14472.8 | 12147.5 | 10484.7 | 10374.7 | 10736.6 | 12629.2 |
| 42.5° | 17793.3 | 18003.6 | 19001.2 | 19363.2 | 18446.1 | 16106.1 | 13482.5 | 11832.0 | 11692.7 | 12179.2 | 13964.2 |
| 45°   | 17610.0 | 17766.4 | 18920.5 | 19962.2 | 19869.3 | 17952.3 | 15181.9 | 13524.1 | 13472.8 | 14111.0 | 15504.7 |
| 47.5° | 17292.0 | 17433.9 | 18544.0 | 20101.5 | 20705.5 | 19644.3 | 17223.6 | 15592.7 | 15692.9 | 16529.2 | 17243.2 |
| 50°   | 17463.2 | 17521.9 | 18123.4 | 19747.0 | 20947.5 | 20884.1 | 19505.0 | 17988.9 | 18331.3 | 19375.4 | 19211.5 |
| 52.5° | 17438.8 | 17590.4 | 18074.5 | 19165.0 | 20979.3 | 21649.2 | 21752.0 | 20661.5 | 21382.8 | 22580.9 | 21395.0 |
| 55°   | 14098.7 | 14377.4 | 17499.9 | 19018.3 | 21091.9 | 22400.0 | 23752.1 | 23478.2 | 24823.1 | 26219.3 | 23859.7 |
| 57.5° | 13462.9 | 13639.1 | 15370.1 | 19326.5 | 21688.4 | 23832.8 | 25977.3 | 26578.7 | 28828.3 | 30449.4 | 26862.4 |
| 60°   | 13338.3 | 13555.9 | 15348.2 | 19702.9 | 22898.8 | 26167.9 | 29275.7 | 30332.0 | 33701.4 | 35476.6 | 30344.2 |
| 62.5° | 12949.5 | 13184.2 | 15203.9 | 19654.1 | 24617.7 | 29398.0 | 33498.5 | 34322.4 | 38322.8 | 40049.0 | 33256.5 |
| 65°   | 11717.2 | 11937.2 | 14027.8 | 18864.2 | 25776.8 | 32845.6 | 38496.4 | 37980.4 | 41971.0 | 43269.3 | 34708.8 |
| 66°   | 10873.6 | 11088.7 | 13101.1 | 17935.1 | 25507.7 | 33823.7 | 40266.6 | 39112.5 | 42787.6 | 43804.8 | 34425.2 |
| 67.5° | 9330.6  | 9499.4  | 11301.4 | 15854.3 | 24077.4 | 34097.5 | 41755.7 | 39963.4 | 42873.3 | 43232.6 | 32804.1 |
| 70°   | 5895.2  | 5944.1  | 7345.2  | 10944.5 | 18226.1 | 29571.6 | 39489.1 | 37850.8 | 39337.4 | 38364.3 | 27500.5 |
| 72.5° | 2557.6  | 2540.5  | 3525.9  | 5567.7  | 10318.6 | 19842.3 | 31943.4 | 31231.9 | 30857.8 | 28637.5 | 19250.6 |
| 75°   | 1423.1  | 1442.7  | 1831.4  | 2584.5  | 4193.4  | 9746.4  | 20896.2 | 19996.4 | 16883.8 | 14406.8 | 8729.2  |
| 77.5° | 1141.9  | 1168.7  | 1518.4  | 1833.8  | 1882.7  | 3398.7  | 9778.1  | 7956.5  | 4790.0  | 3843.7  | 2425.5  |
| 80°   | 902.3   | 951.2   | 1325.4  | 1428.0  | 1269.0  | 1401.0  | 3159.1  | 2525.8  | 1895.0  | 1738.6  | 1256.8  |
| 82.5° | 714.0   | 748.2   | 1137.0  | 1080.8  | 887.6   | 943.8   | 1513.6  | 1474.5  | 1232.3  | 1122.3  | 726.2   |
| 85°   | 513.5   | 577.1   | 934.0   | 814.2   | 582.0   | 635.8   | 1004.9  | 963.3   | 706.7   | 577.1   | 320.3   |
| 87.5° | 210.4   | 273.8   | 660.2   | 540.4   | 325.1   | 295.9   | 501.3   | 471.9   | 335.0   | 244.5   | 159.0   |
| 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°    | 7374.6  | 7374.6  | 7374.6 | 7374.6 | 7374.6 | 7374.6 | 7374.6 | 7374.6 | 7374.6 | 7374.6 | 7374.6 |
| 2.5°  | 7367.3  | 7426.0  | 7501.7 | 7548.1 | 7572.6 | 7589.7 | 7616.7 | 7614.2 | 7621.5 | 7624.0 | 7633.7 |
| 5°    | 7416.1  | 7514.0  | 7624.0 | 7653.3 | 7653.3 | 7626.4 | 7599.5 | 7555.5 | 7538.4 | 7533.5 | 7538.4 |
| 7.5°  | 7543.3  | 7650.9  | 7746.3 | 7711.9 | 7638.7 | 7531.0 | 7391.7 | 7269.4 | 7203.4 | 7181.4 | 7176.4 |
| 10°   | 7704.6  | 7834.2  | 7873.3 | 7743.7 | 7528.6 | 7269.4 | 6993.1 | 6792.6 | 6677.7 | 6645.9 | 6636.1 |
| 12.5° | 7900.2  | 8022.5  | 7968.8 | 7694.9 | 7296.4 | 6878.2 | 6496.8 | 6176.4 | 5936.8 | 5861.0 | 5856.1 |
| 15°   | 8115.4  | 8210.9  | 8022.5 | 7543.3 | 6949.1 | 6332.8 | 5653.2 | 5100.6 | 4802.3 | 4706.9 | 4699.6 |
| 17.5° | 8315.9  | 8364.9  | 7990.7 | 7279.2 | 6438.1 | 5440.4 | 4538.2 | 4112.7 | 4010.1 | 4034.5 | 4039.5 |
| 20°   | 8487.1  | 8487.1  | 7883.2 | 6900.2 | 5633.6 | 4264.3 | 3694.6 | 3687.3 | 3760.6 | 3834.0 | 3848.6 |
| 22.5° | 8675.4  | 8562.8  | 7694.9 | 6364.7 | 4494.2 | 3489.2 | 3406.0 | 3474.6 | 3557.7 | 3638.4 | 3650.6 |
| 25°   | 8907.7  | 8624.1  | 7433.2 | 5552.9 | 3533.2 | 3168.9 | 3200.6 | 3256.9 | 3298.5 | 3349.9 | 3357.2 |
| 27.5° | 9166.9  | 8702.3  | 7088.5 | 4435.5 | 3066.3 | 2968.3 | 2992.8 | 3012.4 | 3007.6 | 3027.1 | 3032.0 |
| 30°   | 9477.3  | 8792.7  | 6616.5 | 3467.3 | 2873.1 | 2797.2 | 2753.3 | 2736.1 | 2736.1 | 2767.9 | 2780.1 |
| 32.5° | 9893.1  | 8927.2  | 5939.3 | 2970.9 | 2780.1 | 2675.0 | 2533.1 | 2469.6 | 2494.1 | 2601.7 | 2626.0 |
| 35°   | 10350.3 | 9071.5  | 5022.3 | 2802.2 | 2760.6 | 2618.7 | 2398.7 | 2281.4 | 2283.7 | 2384.0 | 2415.8 |
| 37.5° | 10849.1 | 9255.0  | 4017.4 | 2770.4 | 2804.5 | 2621.2 | 2327.8 | 2166.4 | 2100.4 | 2100.4 | 2112.6 |
| 40°   | 11487.3 | 9443.2  | 3252.0 | 2792.3 | 2897.4 | 2650.5 | 2291.0 | 2075.9 | 1890.0 | 1895.0 | 1904.7 |
| 42.5° | 12318.7 | 9604.6  | 2841.3 | 2838.8 | 3010.0 | 2689.6 | 2288.7 | 1956.1 | 1794.7 | 1904.7 | 2005.0 |
| 45°   | 13242.9 | 9685.2  | 2660.4 | 2880.4 | 3100.4 | 2714.1 | 2249.5 | 1936.5 | 1806.9 | 2134.6 | 2325.4 |
| 47.5° | 14306.5 | 9638.8  | 2560.1 | 2895.1 | 3122.4 | 2714.1 | 2205.5 | 1983.0 | 1892.6 | 2472.0 | 2694.6 |
| 50°   | 15472.9 | 9504.3  | 2462.2 | 2865.8 | 3115.1 | 2709.2 | 2247.1 | 2029.5 | 1924.4 | 2530.8 | 2684.7 |
| 52.5° | 16844.6 | 9391.8  | 2359.6 | 2802.2 | 3063.7 | 2682.4 | 2296.0 | 2010.0 | 1824.1 | 2300.9 | 2408.5 |
| 55°   | 18409.5 | 9423.6  | 2244.6 | 2711.7 | 2983.1 | 2631.0 | 2278.9 | 1931.7 | 1718.9 | 2027.0 | 2093.1 |
| 57.5° | 20409.6 | 9802.6  | 2107.7 | 2596.8 | 2873.1 | 2545.4 | 2217.8 | 1895.0 | 1687.2 | 1838.8 | 1877.8 |
| 60°   | 22642.1 | 10462.7 | 1936.5 | 2481.9 | 2736.1 | 2408.5 | 2171.3 | 1912.1 | 1701.8 | 1824.1 | 1843.6 |
| 62.5° | 24280.2 | 10846.7 | 1789.8 | 2313.1 | 2550.3 | 2256.9 | 2112.6 | 1934.1 | 1740.9 | 1875.4 | 1870.5 |
| 65°   | 24725.3 | 10215.8 | 1606.4 | 2066.2 | 2298.5 | 2097.9 | 2039.3 | 1958.6 | 1758.1 | 1917.0 | 1895.0 |
| 66°   | 24101.8 | 9536.0  | 1525.8 | 1951.3 | 2171.3 | 2019.6 | 2002.6 | 1956.1 | 1750.8 | 1921.9 | 1885.2 |
| 67.5° | 22588.3 | 8142.3  | 1386.4 | 1782.6 | 1968.3 | 1902.3 | 1943.9 | 1934.1 | 1731.2 | 1917.0 | 1865.6 |
| 70°   | 18421.7 | 5555.4  | 1185.9 | 1484.2 | 1638.3 | 1675.0 | 1831.4 | 1855.9 | 1667.7 | 1831.4 | 1718.9 |
| 72.5° | 12871.3 | 3384.1  | 1049.0 | 1151.7 | 1325.4 | 1428.0 | 1677.3 | 1748.2 | 1582.0 | 1599.1 | 1491.5 |
| 75°   | 6220.4  | 1797.2  | 951.2  | 892.4  | 1029.4 | 1193.2 | 1491.5 | 1601.5 | 1447.5 | 1337.5 | 1298.3 |
| 77.5° | 1939.1  | 1097.8  | 806.9  | 718.9  | 806.9  | 963.3  | 1246.9 | 1403.6 | 1288.6 | 1119.9 | 1105.1 |
| 80°   | 1041.7  | 806.9   | 621.0  | 577.1  | 638.2  | 755.5  | 980.5  | 1171.3 | 1107.7 | 1004.9 | 897.3  |
| 82.5° | 687.1   | 523.3   | 459.7  | 447.4  | 486.5  | 577.1  | 728.6  | 970.8  | 970.8  | 860.8  | 625.9  |
| 85°   | 354.5   | 320.3   | 315.4  | 315.4  | 339.9  | 383.9  | 496.4  | 748.2  | 797.1  | 454.8  | 376.5  |
| 87.5° | 176.0   | 183.3   | 171.2  | 178.5  | 190.7  | 188.3  | 237.2  | 376.5  | 449.9  | 276.3  | 229.9  |
| 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)