

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: P193179

Luminaire Tested: **GAN-AF-01-LED-U-T3-7030-800-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-01-LED-U-T3-7030-800-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4871.9 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

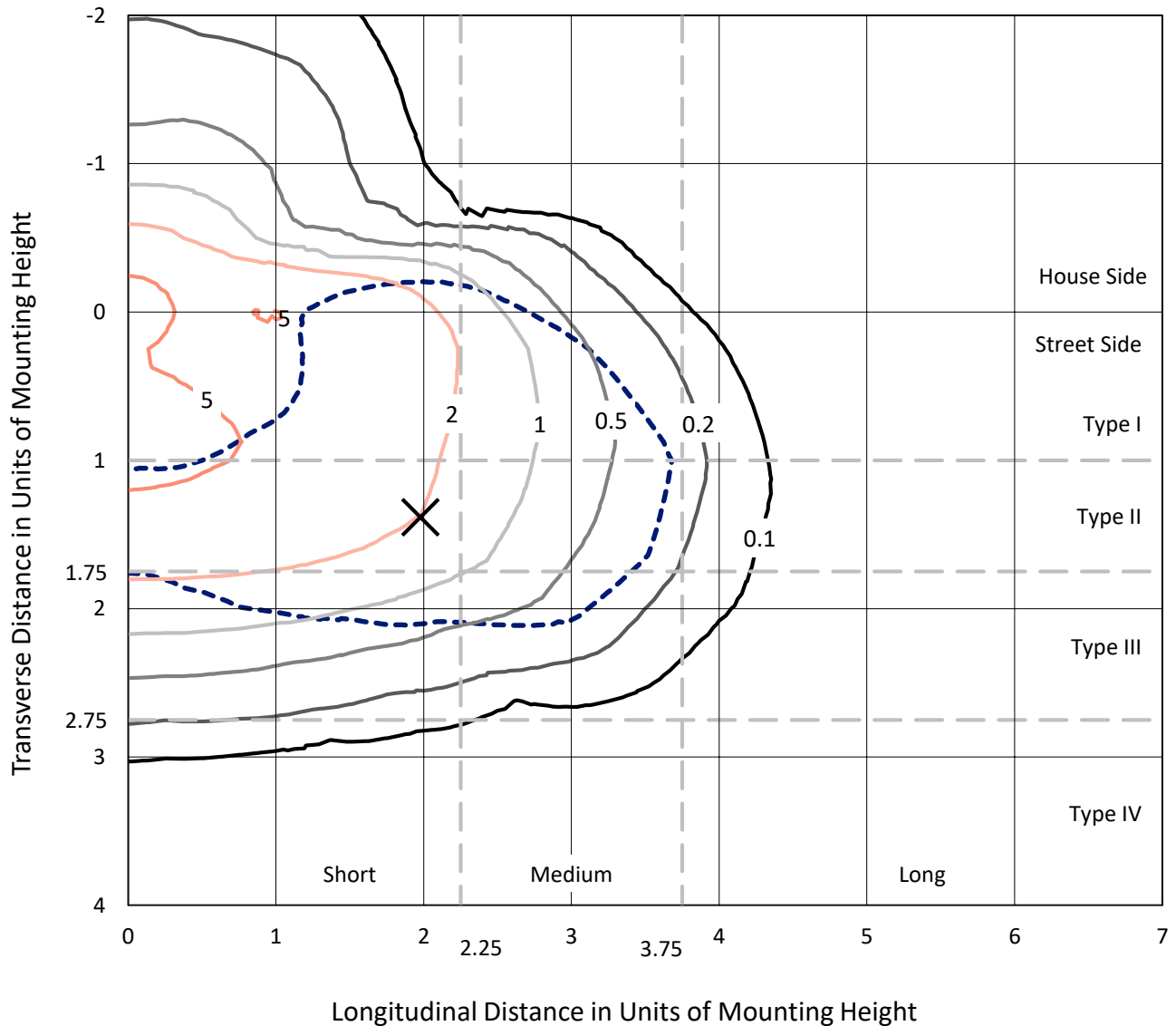


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

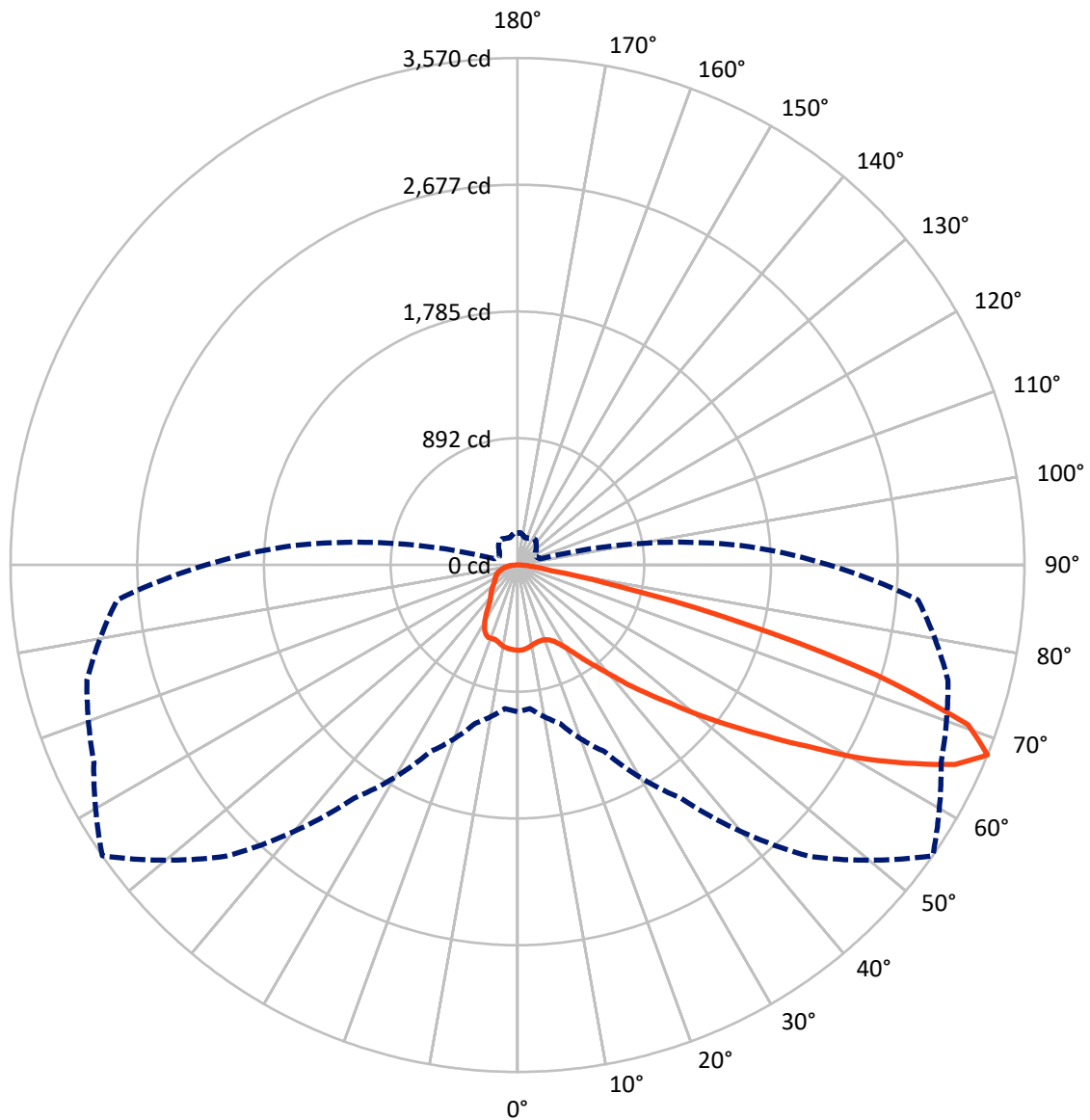


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1052.4   | 0.0    | 1052.4 |
|                    | % Fixture | 21.6     | 0.0    | 21.6   |
| <b>Street Side</b> | Lumens    | 3819.5   | 0.0    | 3819.5 |
|                    | % Fixture | 78.4     | 0.0    | 78.4   |
| <b>Total</b>       | Lumens    | 4871.9   | 0.0    | 4871.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.1   | 1.2       |
| 10°-20°   | 158.8  | 3.3       |
| 20°-30°   | 266.0  | 5.5       |
| 30°-40°   | 437.5  | 9.0       |
| 40°-50°   | 736.4  | 15.1      |
| 50°-60°   | 1159.0 | 23.8      |
| 60°-70°   | 1383.2 | 28.4      |
| 70°-80°   | 594.0  | 12.2      |
| 80°-90°   | 81.0   | 1.7       |
| 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°    | 4871.9 | 100.0     |
| 0°-180°   | 4871.9 | 100.0     |

**Coefficient of Utilization**



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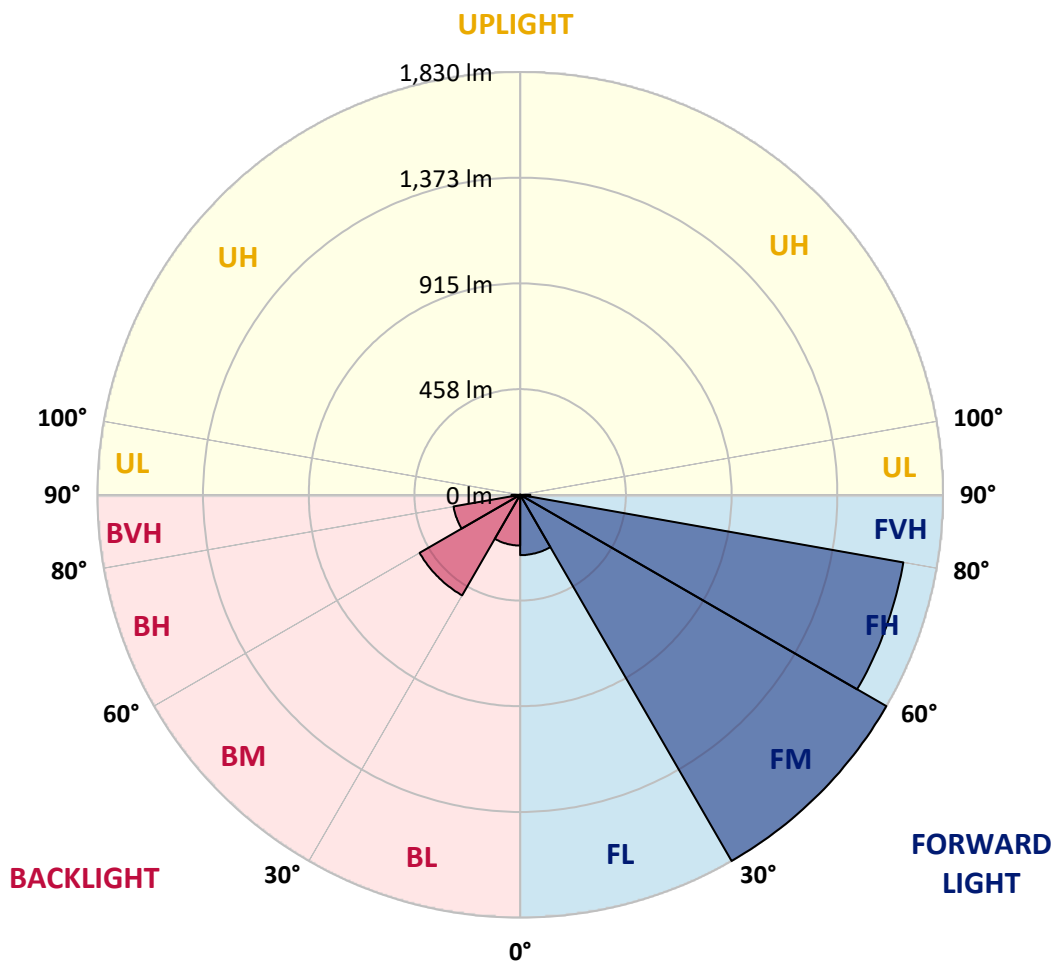
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 261.1  | 5.4       |                         |      |         |
| FM   | (30°-60°)   | 1830.2 | 37.6      |                         |      |         |
| FH   | (60°-80°)   | 1684.2 | 34.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 43.8   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 219.8  | 4.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 502.6  | 10.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 292.9  | 6.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 37.1   | 0.8       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 600.7  | 600.7  | 600.7  | 600.7  | 600.7  | 600.7  | 600.7  | 600.7  | 600.7  | 600.7  | 600.7  |
| 2.5°  | 595.6  | 595.8  | 596.3  | 598.2  | 599.9  | 599.4  | 599.7  | 598.6  | 598.4  | 597.0  | 598.4  |
| 5°    | 588.1  | 588.8  | 589.0  | 592.0  | 594.0  | 594.4  | 593.8  | 592.5  | 591.1  | 589.7  | 590.4  |
| 7.5°  | 570.9  | 572.7  | 572.9  | 577.2  | 580.2  | 584.3  | 584.5  | 584.7  | 584.1  | 583.1  | 584.5  |
| 10°   | 560.1  | 560.5  | 560.3  | 563.3  | 565.8  | 570.2  | 572.7  | 577.2  | 579.1  | 579.6  | 580.5  |
| 12.5° | 559.3  | 558.9  | 558.2  | 558.2  | 557.4  | 559.3  | 564.0  | 570.5  | 574.9  | 576.3  | 577.4  |
| 15°   | 566.8  | 566.6  | 564.4  | 560.7  | 556.2  | 554.8  | 558.9  | 566.0  | 571.9  | 574.9  | 576.1  |
| 17.5° | 583.8  | 582.4  | 578.6  | 570.7  | 560.9  | 557.2  | 557.7  | 563.6  | 570.5  | 574.3  | 575.6  |
| 20°   | 614.9  | 614.9  | 606.8  | 591.8  | 574.6  | 565.8  | 561.5  | 565.0  | 571.5  | 577.0  | 578.6  |
| 22.5° | 668.5  | 669.0  | 655.5  | 630.9  | 601.9  | 582.9  | 572.3  | 571.5  | 579.3  | 585.4  | 587.4  |
| 25°   | 744.5  | 742.6  | 723.9  | 688.6  | 644.5  | 613.0  | 594.6  | 590.4  | 597.0  | 603.7  | 606.2  |
| 27.5° | 833.0  | 826.2  | 803.8  | 761.2  | 704.2  | 658.2  | 629.9  | 623.1  | 629.5  | 637.2  | 639.6  |
| 30°   | 920.5  | 913.5  | 886.8  | 840.3  | 777.1  | 718.6  | 678.2  | 667.1  | 676.1  | 687.1  | 688.6  |
| 32.5° | 1008.1 | 1008.1 | 978.4  | 924.2  | 855.2  | 790.9  | 742.4  | 729.2  | 744.0  | 757.5  | 760.6  |
| 35°   | 1112.8 | 1113.3 | 1084.5 | 1019.2 | 945.0  | 877.1  | 823.6  | 814.0  | 836.3  | 845.6  | 853.0  |
| 37.5° | 1241.5 | 1244.1 | 1207.2 | 1128.1 | 1046.9 | 975.3  | 911.9  | 898.6  | 921.0  | 946.6  | 970.2  |
| 40°   | 1380.6 | 1383.9 | 1343.2 | 1245.8 | 1164.6 | 1089.8 | 1021.0 | 997.2  | 1034.4 | 1083.5 | 1113.8 |
| 42.5° | 1513.4 | 1530.2 | 1491.0 | 1390.7 | 1303.4 | 1226.0 | 1156.3 | 1121.8 | 1168.3 | 1242.2 | 1268.6 |
| 45°   | 1705.1 | 1717.3 | 1648.8 | 1558.0 | 1475.9 | 1389.3 | 1297.0 | 1260.6 | 1325.8 | 1419.0 | 1424.3 |
| 47.5° | 1832.9 | 1823.6 | 1788.9 | 1732.5 | 1680.4 | 1599.4 | 1460.6 | 1420.6 | 1507.2 | 1616.8 | 1586.5 |
| 50°   | 1900.9 | 1903.8 | 1898.9 | 1902.3 | 1904.2 | 1853.4 | 1661.1 | 1606.2 | 1709.6 | 1842.0 | 1772.1 |
| 52.5° | 1964.4 | 1945.6 | 1961.1 | 2038.2 | 2131.4 | 2112.6 | 1879.3 | 1822.0 | 1926.5 | 2092.0 | 1968.5 |
| 55°   | 1963.0 | 1934.3 | 1984.9 | 2121.2 | 2323.3 | 2344.9 | 2124.2 | 2058.3 | 2155.9 | 2360.0 | 2176.5 |
| 57.5° | 1893.6 | 1895.0 | 1972.9 | 2151.2 | 2456.9 | 2563.2 | 2408.4 | 2309.6 | 2399.3 | 2631.5 | 2366.3 |
| 60°   | 1798.1 | 1811.0 | 1923.2 | 2146.3 | 2564.0 | 2742.3 | 2757.1 | 2580.4 | 2637.6 | 2878.3 | 2523.5 |
| 62.5° | 1644.0 | 1657.6 | 1812.4 | 2095.0 | 2547.7 | 2914.8 | 3072.5 | 2887.7 | 2886.8 | 3028.0 | 2569.7 |
| 65°   | 1400.8 | 1396.8 | 1559.4 | 1903.2 | 2411.5 | 3042.4 | 3385.7 | 3153.4 | 3074.5 | 3030.5 | 2476.9 |
| 67.5° | 1033.0 | 1015.1 | 1154.7 | 1449.6 | 2004.4 | 2899.5 | 3569.9 | 3291.8 | 3138.6 | 2831.0 | 2193.6 |
| 70°   | 536.0  | 518.1  | 631.1  | 846.4  | 1318.2 | 2263.0 | 3366.0 | 3220.3 | 2997.2 | 2373.1 | 1718.5 |
| 72.5° | 229.2  | 226.1  | 272.0  | 371.4  | 637.7  | 1305.3 | 2639.2 | 2787.3 | 2571.8 | 1768.2 | 1181.5 |
| 75°   | 154.2  | 153.2  | 170.3  | 202.3  | 286.8  | 529.7  | 1651.7 | 1978.4 | 1881.6 | 1096.3 | 664.6  |
| 77.5° | 121.0  | 119.7  | 129.9  | 145.5  | 185.8  | 208.9  | 733.0  | 1062.2 | 983.2  | 477.3  | 290.8  |
| 80°   | 94.6   | 93.6   | 100.0  | 108.5  | 133.7  | 131.7  | 241.3  | 422.7  | 327.1  | 182.8  | 141.4  |
| 82.5° | 74.7   | 74.7   | 79.8   | 80.0   | 94.8   | 89.9   | 125.8  | 186.2  | 163.4  | 106.6  | 86.7   |
| 85°   | 68.3   | 68.3   | 73.6   | 59.8   | 61.8   | 56.7   | 78.1   | 110.4  | 103.6  | 43.8   | 37.7   |
| 87.5° | 34.3   | 33.5   | 61.8   | 53.0   | 33.7   | 30.1   | 38.1   | 53.4   | 57.5   | 24.2   | 18.8   |
| 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):**

|       | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 600.7  | 600.7 | 600.7 | 600.7 | 600.7 | 600.7 | 600.7 | 600.7 | 600.7 | 600.7 |
| 2.5°  | 597.9  | 597.6 | 598.2 | 598.4 | 600.3 | 602.9 | 604.1 | 605.8 | 606.6 | 606.2 |
| 5°    | 590.9  | 591.3 | 593.3 | 594.6 | 597.9 | 602.1 | 604.5 | 606.4 | 608.0 | 607.4 |
| 7.5°  | 585.0  | 586.1 | 589.0 | 590.2 | 592.0 | 593.3 | 592.9 | 593.8 | 595.1 | 593.5 |
| 10°   | 581.7  | 583.1 | 585.2 | 583.6 | 579.1 | 572.7 | 566.8 | 563.8 | 564.8 | 563.6 |
| 12.5° | 578.4  | 580.2 | 578.6 | 570.9 | 558.5 | 550.1 | 545.6 | 546.2 | 548.3 | 548.7 |
| 15°   | 576.6  | 577.2 | 570.2 | 555.6 | 542.9 | 541.7 | 544.0 | 543.6 | 543.8 | 543.8 |
| 17.5° | 576.6  | 574.6 | 561.5 | 546.9 | 541.5 | 539.3 | 532.1 | 523.0 | 518.9 | 517.5 |
| 20°   | 579.6  | 574.6 | 558.7 | 549.0 | 537.2 | 519.1 | 499.8 | 482.8 | 475.4 | 473.2 |
| 22.5° | 588.8  | 580.2 | 566.6 | 549.9 | 516.5 | 486.2 | 455.6 | 435.3 | 421.6 | 419.3 |
| 25°   | 607.4  | 597.9 | 582.4 | 537.4 | 483.6 | 440.4 | 405.5 | 382.9 | 369.2 | 367.3 |
| 27.5° | 639.8  | 633.7 | 590.9 | 509.9 | 439.8 | 393.5 | 361.2 | 343.8 | 333.7 | 333.0 |
| 30°   | 688.8  | 685.7 | 586.6 | 469.3 | 385.9 | 348.0 | 332.4 | 322.5 | 314.8 | 314.6 |
| 32.5° | 766.9  | 742.2 | 572.7 | 419.5 | 336.7 | 315.8 | 309.4 | 303.3 | 297.4 | 297.4 |
| 35°   | 867.4  | 787.9 | 546.4 | 366.3 | 306.8 | 297.9 | 289.9 | 280.2 | 272.5 | 272.0 |
| 37.5° | 985.5  | 816.0 | 499.1 | 323.5 | 292.7 | 285.9 | 274.1 | 259.8 | 246.2 | 243.7 |
| 40°   | 1104.8 | 824.6 | 432.5 | 297.1 | 283.7 | 273.9 | 259.6 | 242.5 | 229.5 | 228.7 |
| 42.5° | 1214.2 | 808.3 | 361.8 | 279.0 | 274.9 | 261.6 | 246.6 | 231.5 | 221.1 | 220.9 |
| 45°   | 1305.9 | 766.1 | 302.6 | 261.9 | 265.4 | 250.6 | 237.2 | 225.0 | 217.0 | 215.3 |
| 47.5° | 1392.4 | 706.7 | 260.9 | 243.7 | 256.0 | 244.5 | 233.2 | 221.7 | 213.9 | 212.7 |
| 50°   | 1492.6 | 642.5 | 231.7 | 226.1 | 247.8 | 242.3 | 236.4 | 224.5 | 211.5 | 210.1 |
| 52.5° | 1614.0 | 586.8 | 208.9 | 210.7 | 241.5 | 245.2 | 245.0 | 232.5 | 209.9 | 208.0 |
| 55°   | 1749.6 | 525.2 | 191.7 | 197.9 | 238.8 | 250.4 | 247.0 | 240.1 | 211.3 | 208.4 |
| 57.5° | 1883.0 | 453.2 | 179.7 | 188.3 | 235.1 | 249.8 | 237.0 | 226.8 | 214.5 | 210.7 |
| 60°   | 1982.9 | 356.5 | 170.6 | 179.7 | 226.8 | 242.1 | 225.9 | 212.5 | 213.9 | 210.9 |
| 62.5° | 1989.6 | 275.6 | 159.5 | 172.5 | 214.3 | 234.4 | 218.6 | 206.2 | 217.0 | 214.1 |
| 65°   | 1872.6 | 208.2 | 148.9 | 163.8 | 200.9 | 229.5 | 211.5 | 202.5 | 223.3 | 220.2 |
| 67.5° | 1576.6 | 167.5 | 140.0 | 154.8 | 187.6 | 219.1 | 205.2 | 199.3 | 229.0 | 223.6 |
| 70°   | 1138.3 | 142.8 | 131.3 | 144.0 | 175.6 | 207.3 | 199.5 | 193.4 | 213.7 | 205.2 |
| 72.5° | 700.8  | 123.8 | 121.4 | 129.7 | 166.4 | 195.0 | 191.1 | 182.4 | 192.6 | 185.6 |
| 75°   | 349.9  | 107.3 | 110.4 | 115.5 | 153.4 | 181.2 | 177.0 | 168.3 | 169.7 | 168.3 |
| 77.5° | 167.5  | 91.8  | 97.5  | 101.4 | 136.7 | 165.4 | 160.9 | 152.0 | 150.3 | 150.6 |
| 80°   | 106.1  | 76.7  | 82.2  | 84.9  | 122.2 | 147.1 | 142.6 | 133.7 | 152.5 | 141.4 |
| 82.5° | 66.3   | 62.4  | 63.8  | 69.0  | 106.3 | 128.1 | 122.2 | 114.1 | 137.4 | 108.7 |
| 85°   | 36.7   | 43.4  | 45.5  | 49.9  | 81.8  | 107.1 | 101.2 | 91.0  | 81.6  | 80.2  |
| 87.5° | 21.9   | 25.9  | 26.6  | 29.9  | 55.0  | 77.5  | 68.5  | 64.9  | 53.9  | 53.6  |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)