

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: P268225

Luminaire Tested: **GAN-AF-01-LED-U-T3-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268225  
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-T3-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5415.8 lumens  
Efficiency: N/A  
Efficacy: 91.8 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 - G2

Input Watts (W): 59  
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

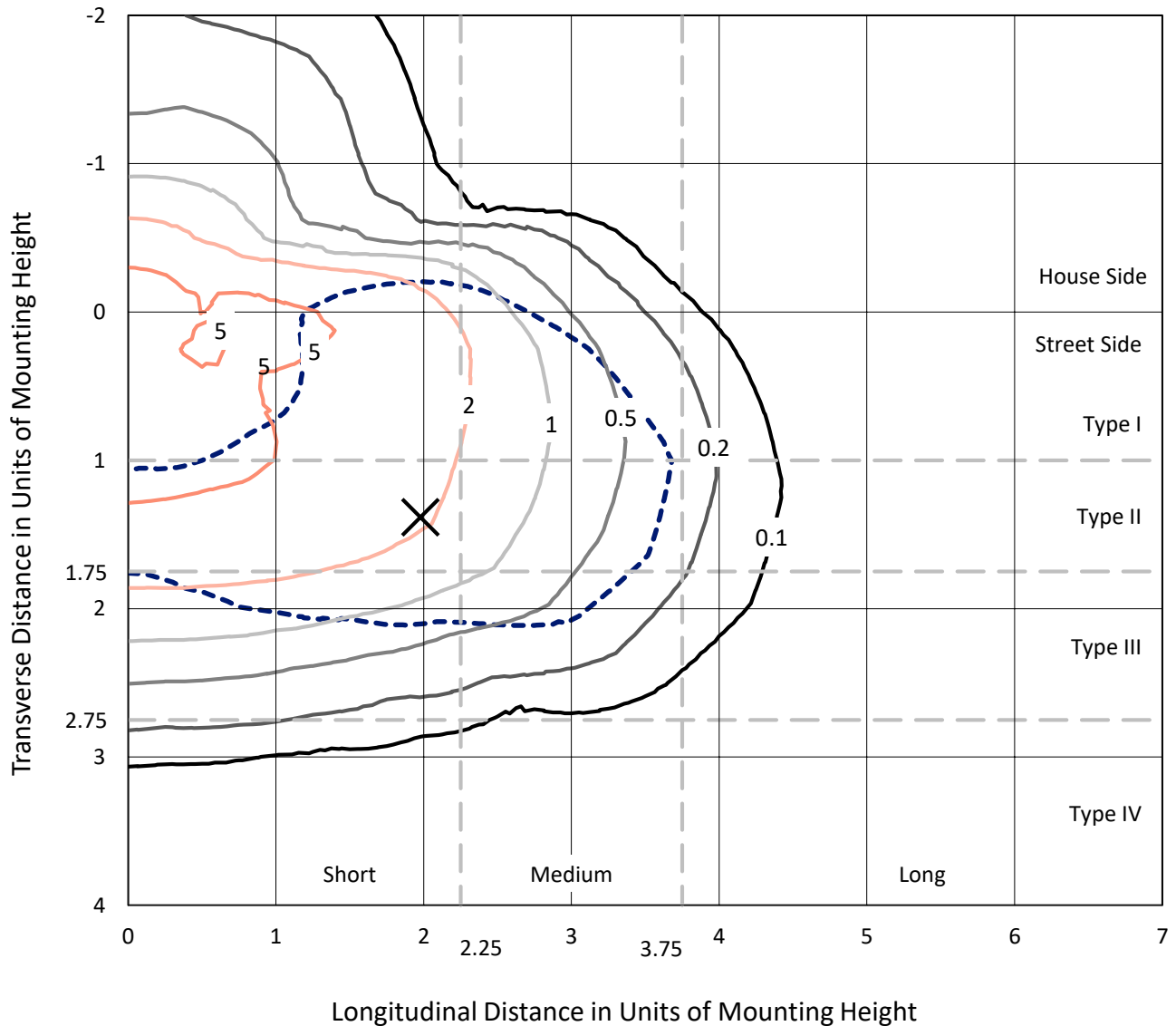


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

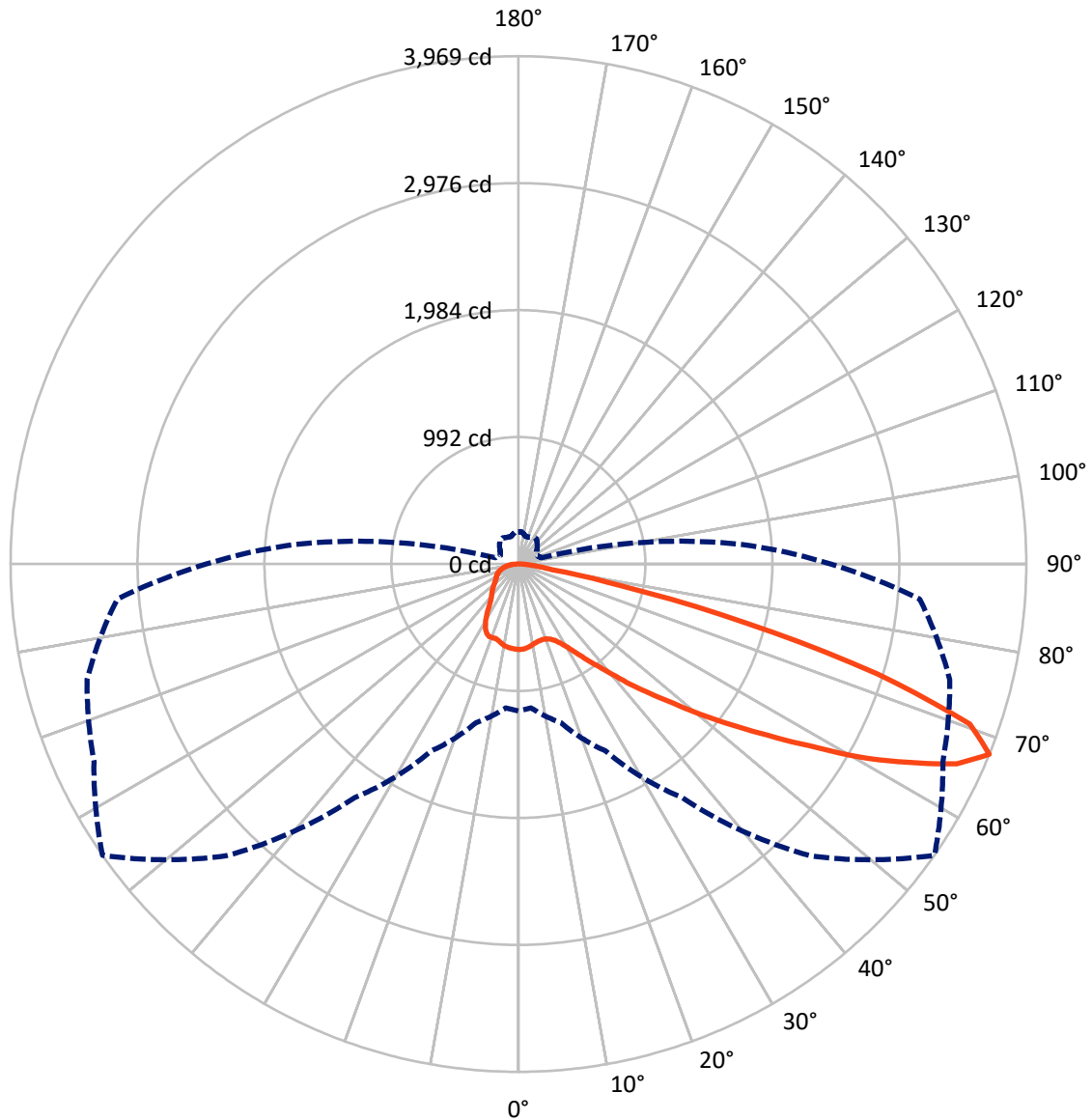


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - Full Cutoff

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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    | 1169.9   | 0.0    | 1169.9 |
|                    | % Fixture | 21.6     | 0.0    | 21.6   |
| <b>Street Side</b> | Lumens    | 4245.9   | 0.0    | 4245.9 |
|                    | % Fixture | 78.4     | 0.0    | 78.4   |
| <b>Total</b>       | Lumens    | 5415.8   | 0.0    | 5415.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.3   | 1.2       |
| 10°-20°   | 176.5  | 3.3       |
| 20°-30°   | 295.7  | 5.5       |
| 30°-40°   | 486.3  | 9.0       |
| 40°-50°   | 818.6  | 15.1      |
| 50°-60°   | 1288.4 | 23.8      |
| 60°-70°   | 1537.6 | 28.4      |
| 70°-80°   | 660.3  | 12.2      |
| 80°-90°   | 90.0   | 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°    | 5415.8 | 100.0     |
| 0°-180°   | 5415.8 | 100.0     |

**Coefficient of Utilization**



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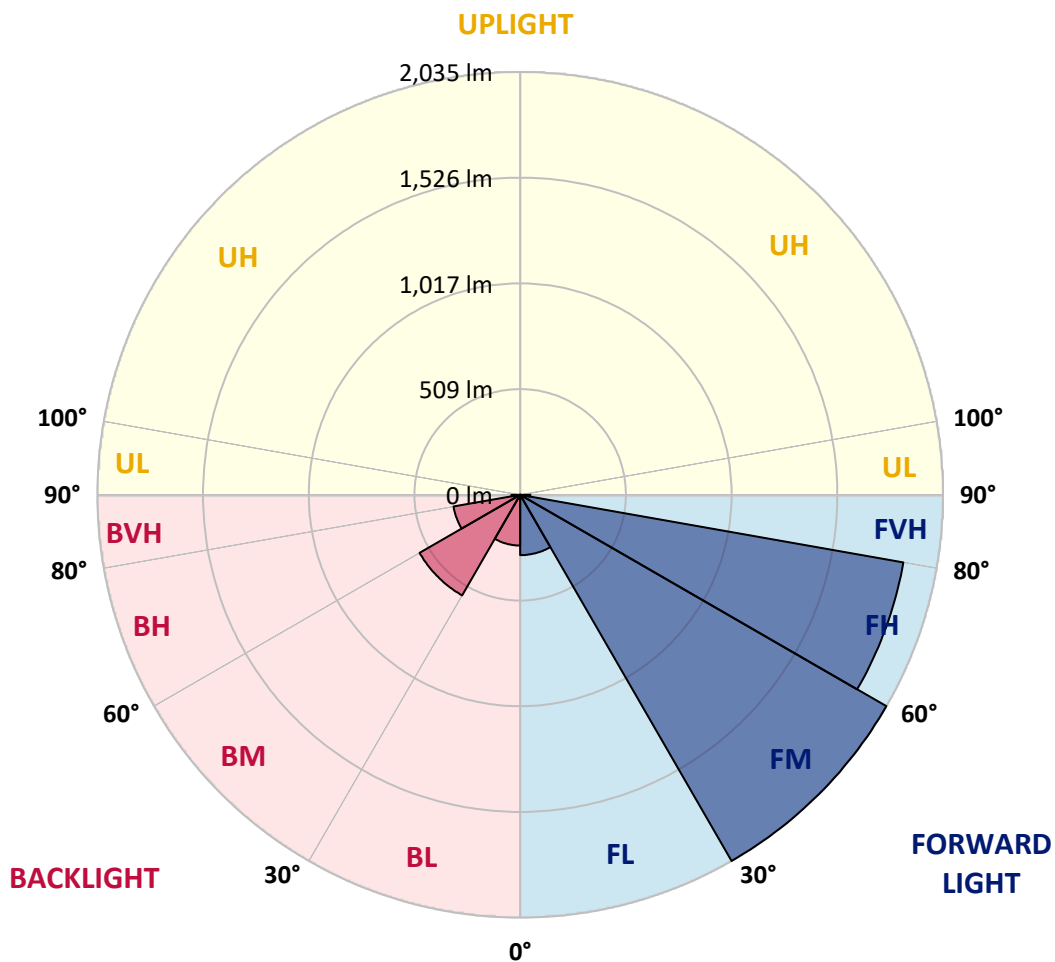
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 290.3  | 5.4       |                         |      |         |
| FM   | (30°-60°)   | 2034.6 | 37.6      |                         |      |         |
| FH   | (60°-80°)   | 1872.3 | 34.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 48.7   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 244.3  | 4.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 558.8  | 10.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 325.6  | 6.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 41.3   | 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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 667.8  | 667.8  | 667.8  | 667.8  | 667.8  | 667.8  | 667.8  | 667.8  | 667.8  | 667.8  | 667.8  |
| 2.5°  | 662.1  | 662.3  | 662.9  | 664.9  | 666.8  | 666.3  | 666.5  | 665.5  | 665.3  | 663.7  | 665.3  |
| 5°    | 653.6  | 654.4  | 654.8  | 658.2  | 660.3  | 660.8  | 660.0  | 658.6  | 657.1  | 655.6  | 656.3  |
| 7.5°  | 634.7  | 636.7  | 637.0  | 641.7  | 645.1  | 649.6  | 649.7  | 650.1  | 649.3  | 648.1  | 649.7  |
| 10°   | 622.5  | 623.2  | 622.9  | 626.3  | 628.9  | 633.8  | 636.7  | 641.7  | 643.7  | 644.3  | 645.3  |
| 12.5° | 621.7  | 621.3  | 620.5  | 620.5  | 619.7  | 621.7  | 627.0  | 634.1  | 639.1  | 640.6  | 641.8  |
| 15°   | 630.3  | 629.9  | 627.2  | 623.3  | 618.5  | 616.9  | 621.3  | 629.2  | 635.6  | 639.1  | 640.3  |
| 17.5° | 648.9  | 647.4  | 643.2  | 634.4  | 623.7  | 619.4  | 620.0  | 626.5  | 634.1  | 638.5  | 639.9  |
| 20°   | 683.5  | 683.5  | 674.6  | 657.9  | 638.8  | 628.9  | 624.1  | 628.0  | 635.5  | 641.4  | 643.2  |
| 22.5° | 743.2  | 743.6  | 728.7  | 701.2  | 669.1  | 647.9  | 636.2  | 635.5  | 644.1  | 650.8  | 652.9  |
| 25°   | 827.7  | 825.5  | 804.6  | 765.4  | 716.5  | 681.5  | 661.1  | 656.3  | 663.7  | 671.3  | 673.9  |
| 27.5° | 926.1  | 918.4  | 893.5  | 846.3  | 783.0  | 731.7  | 700.3  | 692.7  | 699.7  | 708.4  | 711.0  |
| 30°   | 1023.3 | 1015.4 | 985.9  | 934.1  | 863.8  | 799.0  | 753.9  | 741.6  | 751.5  | 763.7  | 765.4  |
| 32.5° | 1120.6 | 1120.6 | 1087.7 | 1027.2 | 950.5  | 879.3  | 825.4  | 810.7  | 827.1  | 842.0  | 845.5  |
| 35°   | 1237.1 | 1237.5 | 1205.6 | 1132.9 | 1050.6 | 974.9  | 915.6  | 904.9  | 929.7  | 940.2  | 948.3  |
| 37.5° | 1380.2 | 1383.0 | 1342.0 | 1254.0 | 1163.8 | 1084.3 | 1013.6 | 998.9  | 1023.9 | 1052.4 | 1078.5 |
| 40°   | 1534.8 | 1538.3 | 1493.2 | 1384.8 | 1294.5 | 1211.5 | 1135.0 | 1108.6 | 1149.9 | 1204.4 | 1238.0 |
| 42.5° | 1682.3 | 1701.1 | 1657.5 | 1546.0 | 1449.0 | 1362.9 | 1285.5 | 1246.9 | 1298.8 | 1381.0 | 1410.2 |
| 45°   | 1895.5 | 1909.1 | 1832.9 | 1731.9 | 1640.7 | 1544.4 | 1441.9 | 1401.4 | 1473.8 | 1577.3 | 1583.4 |
| 47.5° | 2037.4 | 2027.3 | 1988.6 | 1925.7 | 1867.9 | 1777.9 | 1623.6 | 1579.2 | 1675.5 | 1797.4 | 1763.6 |
| 50°   | 2113.2 | 2116.2 | 2110.9 | 2114.7 | 2116.8 | 2060.3 | 1846.6 | 1785.7 | 1900.5 | 2047.6 | 1970.1 |
| 52.5° | 2183.7 | 2162.8 | 2180.0 | 2265.9 | 2369.5 | 2348.4 | 2089.0 | 2025.5 | 2141.6 | 2325.5 | 2188.2 |
| 55°   | 2182.2 | 2150.3 | 2206.4 | 2358.0 | 2582.6 | 2606.7 | 2361.4 | 2288.2 | 2396.7 | 2623.4 | 2419.4 |
| 57.5° | 2105.0 | 2106.5 | 2193.1 | 2391.4 | 2731.2 | 2849.5 | 2677.3 | 2567.4 | 2667.2 | 2925.3 | 2630.4 |
| 60°   | 1998.8 | 2013.2 | 2138.0 | 2385.9 | 2850.2 | 3048.5 | 3064.9 | 2868.6 | 2932.1 | 3199.8 | 2805.2 |
| 62.5° | 1827.4 | 1842.7 | 2014.7 | 2328.9 | 2832.1 | 3240.2 | 3415.5 | 3210.3 | 3209.1 | 3366.0 | 2856.5 |
| 65°   | 1557.2 | 1552.8 | 1733.5 | 2115.7 | 2680.7 | 3382.1 | 3763.7 | 3505.5 | 3418.0 | 3368.7 | 2753.5 |
| 67.5° | 1148.4 | 1128.5 | 1283.6 | 1611.4 | 2228.2 | 3223.3 | 3968.5 | 3659.3 | 3489.0 | 3147.1 | 2438.4 |
| 70°   | 595.8  | 576.1  | 701.5  | 941.0  | 1465.5 | 2515.7 | 3741.7 | 3579.7 | 3331.9 | 2638.1 | 1910.3 |
| 72.5° | 254.8  | 251.3  | 302.4  | 412.9  | 708.9  | 1451.0 | 2934.0 | 3098.4 | 2858.9 | 1965.5 | 1313.4 |
| 75°   | 171.3  | 170.3  | 189.5  | 224.9  | 318.9  | 588.7  | 1836.0 | 2199.4 | 2091.7 | 1218.7 | 738.8  |
| 77.5° | 134.4  | 133.2  | 144.4  | 161.7  | 206.7  | 232.3  | 814.9  | 1180.8 | 1092.9 | 530.4  | 323.3  |
| 80°   | 105.1  | 104.2  | 111.2  | 120.6  | 148.6  | 146.6  | 268.1  | 469.9  | 363.6  | 203.2  | 157.3  |
| 82.5° | 83.0   | 83.0   | 88.8   | 88.9   | 105.5  | 99.9   | 140.0  | 206.9  | 181.5  | 118.4  | 96.3   |
| 85°   | 75.8   | 75.8   | 81.8   | 66.5   | 68.8   | 63.1   | 86.9   | 122.7  | 115.2  | 48.7   | 41.9   |
| 87.5° | 38.2   | 37.1   | 68.8   | 58.8   | 37.4   | 33.4   | 42.4   | 59.4   | 63.8   | 26.9   | 20.9   |
| 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):**

|       | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 667.8  | 667.8 | 667.8 | 667.8 | 667.8 | 667.8 | 667.8 | 667.8 | 667.8 | 667.8 |
| 2.5°  | 664.7  | 664.4 | 664.9 | 665.3 | 667.4 | 670.1 | 671.6 | 673.3 | 674.4 | 673.9 |
| 5°    | 656.8  | 657.4 | 659.4 | 661.1 | 664.7 | 669.3 | 672.0 | 674.1 | 676.0 | 675.2 |
| 7.5°  | 650.4  | 651.6 | 654.8 | 656.0 | 658.2 | 659.4 | 659.1 | 660.0 | 661.5 | 659.7 |
| 10°   | 646.6  | 648.1 | 650.6 | 648.8 | 643.7 | 636.7 | 630.3 | 626.7 | 627.8 | 626.5 |
| 12.5° | 642.9  | 645.1 | 643.2 | 634.7 | 620.8 | 611.6 | 606.6 | 607.2 | 609.5 | 609.9 |
| 15°   | 640.9  | 641.7 | 633.8 | 617.7 | 603.5 | 602.1 | 604.7 | 604.3 | 604.5 | 604.5 |
| 17.5° | 640.9  | 638.8 | 624.1 | 608.0 | 602.0 | 599.6 | 591.4 | 581.3 | 576.8 | 575.3 |
| 20°   | 644.3  | 638.8 | 621.0 | 610.3 | 597.3 | 577.0 | 555.6 | 536.7 | 528.5 | 526.0 |
| 22.5° | 654.4  | 645.1 | 629.9 | 611.3 | 574.1 | 540.4 | 506.5 | 483.9 | 468.7 | 466.1 |
| 25°   | 675.2  | 664.7 | 647.4 | 597.5 | 537.5 | 489.4 | 450.7 | 425.5 | 410.4 | 408.3 |
| 27.5° | 711.3  | 704.5 | 656.8 | 566.9 | 488.9 | 437.4 | 401.5 | 382.1 | 370.9 | 370.1 |
| 30°   | 765.6  | 762.2 | 652.1 | 521.6 | 429.0 | 386.9 | 369.7 | 358.3 | 350.0 | 349.7 |
| 32.5° | 852.5  | 825.1 | 636.7 | 466.4 | 374.4 | 351.1 | 344.1 | 337.1 | 330.7 | 330.7 |
| 35°   | 964.2  | 875.8 | 607.4 | 407.3 | 341.0 | 331.1 | 322.3 | 311.5 | 302.9 | 302.4 |
| 37.5° | 1095.6 | 907.2 | 554.9 | 359.7 | 325.5 | 317.8 | 304.7 | 288.7 | 273.7 | 271.0 |
| 40°   | 1228.2 | 916.6 | 480.9 | 330.3 | 315.5 | 304.4 | 288.5 | 269.8 | 255.1 | 254.3 |
| 42.5° | 1349.9 | 898.6 | 402.4 | 310.3 | 305.6 | 291.0 | 274.2 | 257.5 | 245.9 | 245.6 |
| 45°   | 1451.8 | 851.8 | 336.3 | 291.1 | 295.1 | 278.6 | 263.7 | 250.1 | 241.1 | 239.4 |
| 47.5° | 1547.8 | 785.6 | 290.2 | 271.0 | 284.7 | 271.7 | 259.3 | 246.4 | 237.8 | 236.4 |
| 50°   | 1659.2 | 714.2 | 257.6 | 251.3 | 275.4 | 269.4 | 262.9 | 249.5 | 235.1 | 233.6 |
| 52.5° | 1794.3 | 652.3 | 232.3 | 234.1 | 268.5 | 272.5 | 272.2 | 258.4 | 233.3 | 231.3 |
| 55°   | 1944.9 | 583.9 | 213.2 | 219.9 | 265.4 | 278.4 | 274.6 | 266.8 | 234.8 | 231.8 |
| 57.5° | 2093.2 | 503.8 | 199.9 | 209.2 | 261.3 | 277.8 | 263.5 | 252.2 | 238.6 | 234.1 |
| 60°   | 2204.4 | 396.3 | 189.6 | 199.9 | 252.2 | 269.2 | 251.2 | 236.3 | 237.8 | 234.4 |
| 62.5° | 2211.6 | 306.3 | 177.3 | 191.8 | 238.3 | 260.6 | 243.0 | 229.2 | 241.1 | 238.1 |
| 65°   | 2081.7 | 231.6 | 165.6 | 182.0 | 223.4 | 255.1 | 235.1 | 225.2 | 248.2 | 244.9 |
| 67.5° | 1752.7 | 186.3 | 155.6 | 172.1 | 208.4 | 243.5 | 228.1 | 221.5 | 254.5 | 248.6 |
| 70°   | 1265.4 | 158.8 | 146.0 | 160.1 | 195.1 | 230.4 | 221.8 | 215.1 | 237.5 | 228.1 |
| 72.5° | 779.0  | 137.6 | 134.9 | 144.2 | 185.0 | 216.9 | 212.4 | 202.7 | 213.9 | 206.4 |
| 75°   | 389.0  | 119.3 | 122.7 | 128.5 | 170.6 | 201.4 | 196.6 | 187.0 | 188.6 | 187.0 |
| 77.5° | 186.3  | 102.0 | 108.2 | 112.7 | 152.0 | 184.0 | 178.9 | 169.1 | 167.2 | 167.4 |
| 80°   | 117.9  | 85.2  | 91.3  | 94.4  | 135.7 | 163.5 | 158.6 | 148.6 | 169.5 | 157.3 |
| 82.5° | 73.8   | 69.3  | 70.8  | 76.6  | 118.2 | 142.3 | 135.7 | 126.9 | 152.7 | 120.8 |
| 85°   | 40.9   | 48.4  | 50.5  | 55.4  | 91.0  | 119.0 | 112.5 | 101.1 | 90.8  | 89.2  |
| 87.5° | 24.3   | 28.7  | 29.6  | 33.1  | 61.3  | 86.1  | 76.1  | 72.3  | 59.8  | 59.6  |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)