

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: P268494

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-05-LED-U-AFL-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17470.4 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

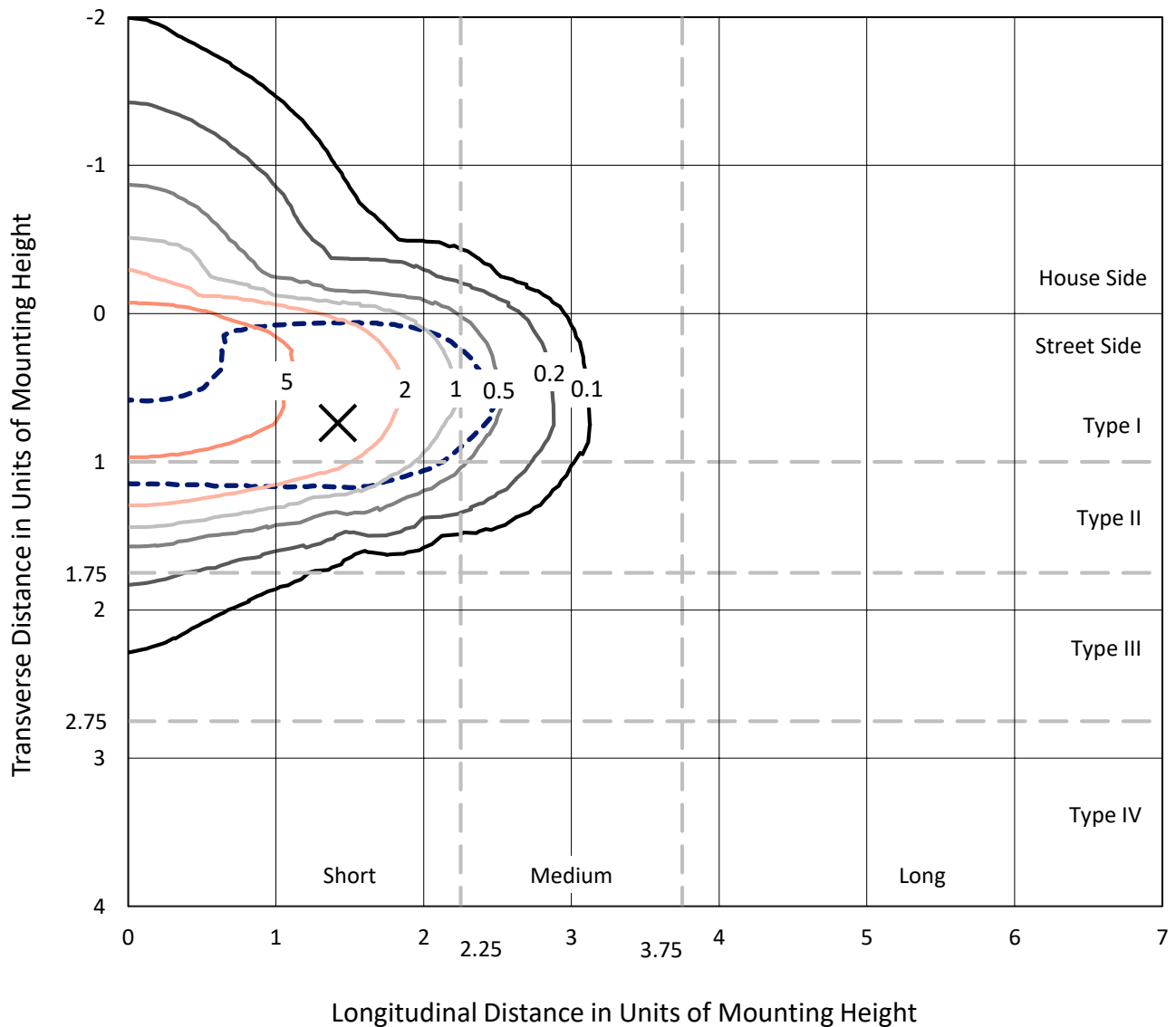
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

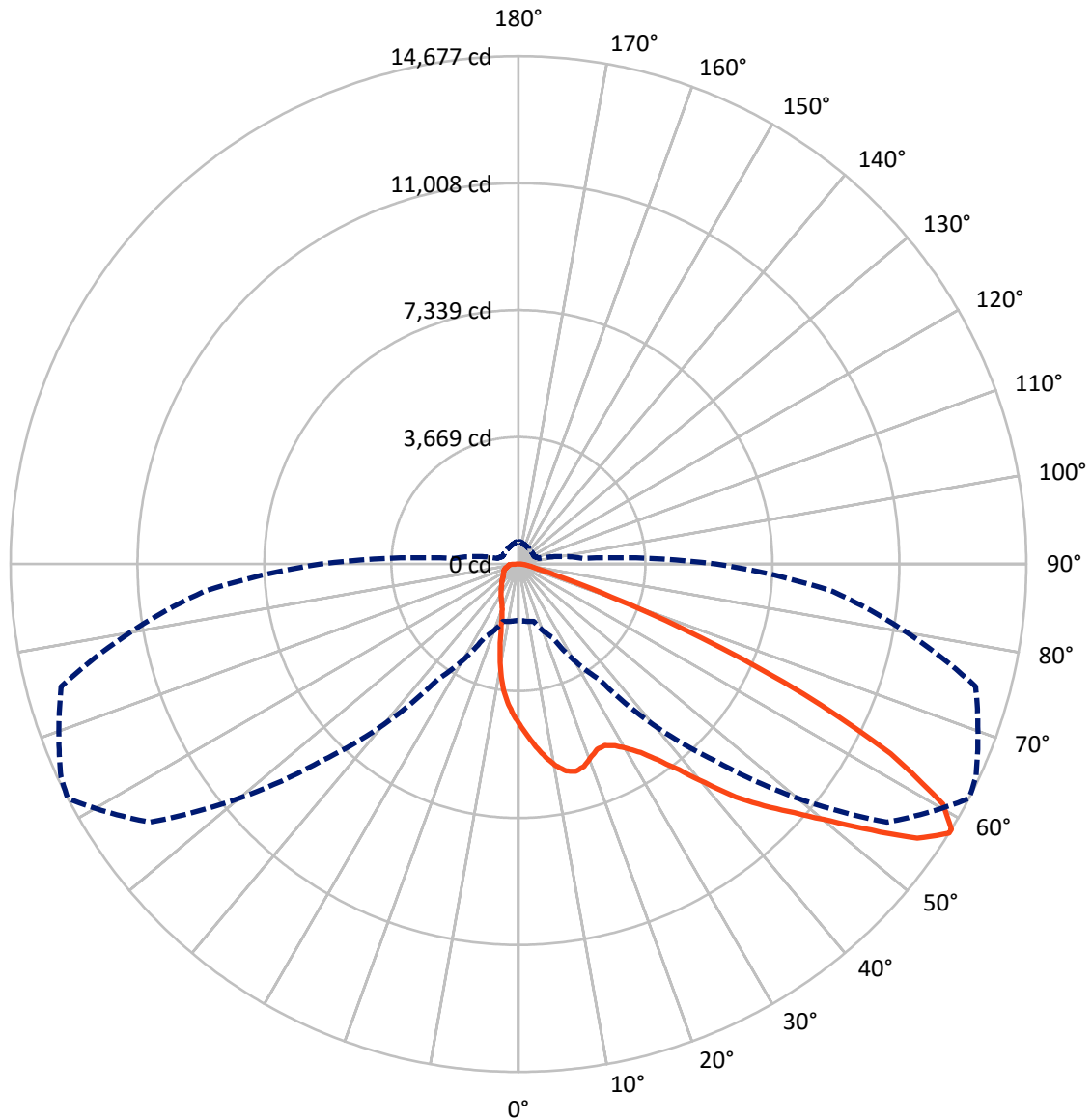
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2664.3   | 0.0    | 2664.3  |
|                    | % Fixture | 15.3     | 0.0    | 15.3    |
| <b>Street Side</b> | Lumens    | 14806.1  | 0.0    | 14806.1 |
|                    | % Fixture | 84.7     | 0.0    | 84.7    |
| <b>Total</b>       | Lumens    | 17470.4  | 0.0    | 17470.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 415.0   | 2.4       |
| 10°-20°   | 1060.9  | 6.1       |
| 20°-30°   | 1715.0  | 9.8       |
| 30°-40°   | 2722.5  | 15.6      |
| 40°-50°   | 3983.6  | 22.8      |
| 50°-60°   | 4166.5  | 23.8      |
| 60°-70°   | 2461.6  | 14.1      |
| 70°-80°   | 693.4   | 4.0       |
| 80°-90°   | 251.8   | 1.4       |
| 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°    | 17470.4 | 100.0     |
| 0°-180°   | 17470.4 | 100.0     |



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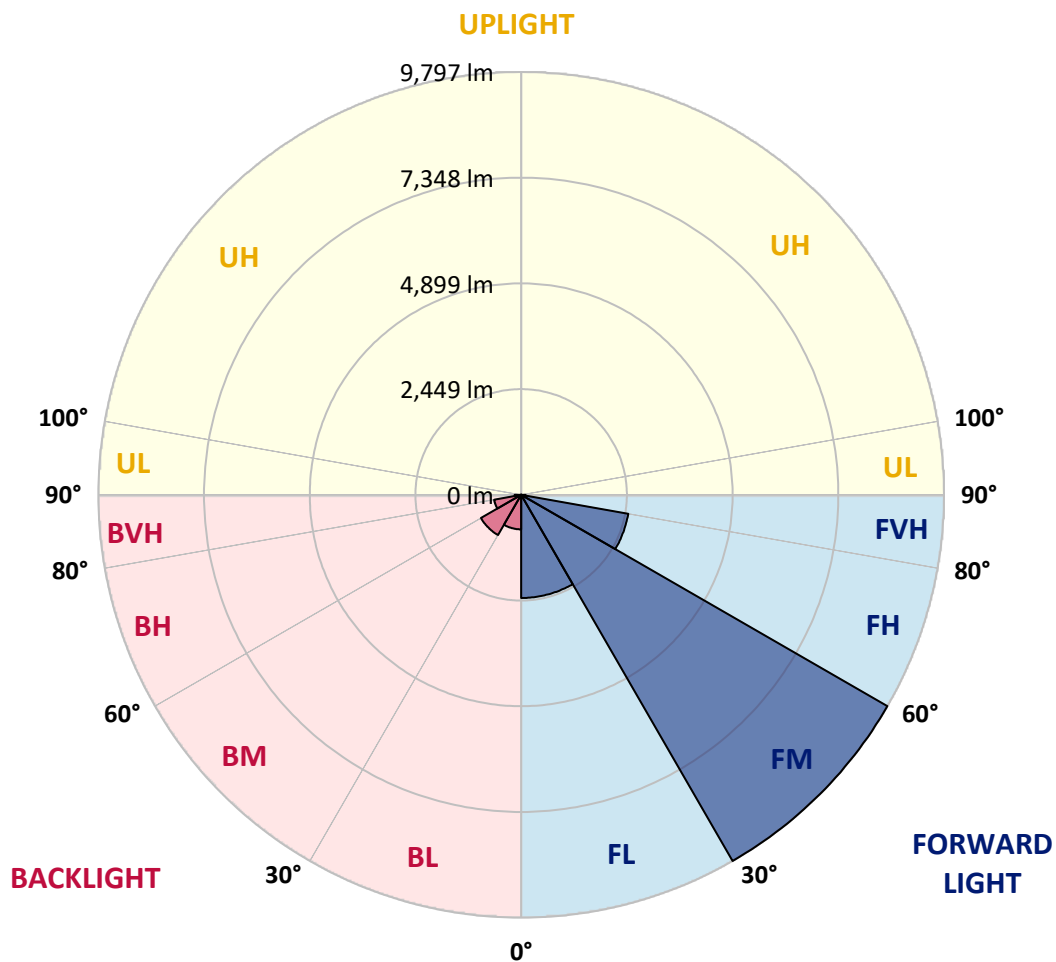
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2390.2 | 13.7      |                         |      |         |
| FM   | (30°-60°)   | 9797.3 | 56.1      |                         |      |         |
| FH   | (60°-80°)   | 2519.3 | 14.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 99.3   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 800.8  | 4.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1075.4 | 6.2       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 635.7  | 3.6       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 152.4  | 0.9       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 62.5°   | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6  | 4640.6  | 4640.6  | 4640.6  | 4640.6  | 4640.6  | 4640.6 |
| 2.5°  | 5302.9 | 5260.1 | 5232.9 | 5209.1 | 5177.8  | 5111.1  | 5021.5  | 4964.8  | 4935.9  | 4838.1  | 4722.1 |
| 5°    | 5822.9 | 5784.9 | 5757.0 | 5724.9 | 5668.9  | 5564.6  | 5419.7  | 5304.5  | 5247.8  | 5052.0  | 4819.9 |
| 7.5°  | 5701.1 | 5716.8 | 5765.2 | 5849.9 | 5922.3  | 5908.4  | 5779.2  | 5632.8  | 5558.0  | 5285.5  | 4933.5 |
| 10°   | 4967.3 | 4994.3 | 5078.3 | 5276.6 | 5597.3  | 5926.5  | 6026.9  | 5925.7  | 5849.9  | 5516.9  | 5050.4 |
| 12.5° | 4819.9 | 4819.1 | 4825.8 | 4878.3 | 5069.2  | 5532.4  | 6035.1  | 6137.1  | 6091.9  | 5737.2  | 5169.7 |
| 15°   | 4880.0 | 4881.7 | 4876.8 | 4898.9 | 4958.1  | 5141.7  | 5783.3  | 6218.4  | 6250.5  | 5959.4  | 5293.1 |
| 17.5° | 5038.1 | 5033.9 | 5015.0 | 5015.0 | 5036.3  | 5107.9  | 5487.1  | 6142.8  | 6290.9  | 6155.9  | 5401.6 |
| 20°   | 5302.9 | 5284.0 | 5233.7 | 5187.7 | 5164.6  | 5203.3  | 5365.3  | 5968.3  | 6221.0  | 6327.9  | 5491.2 |
| 22.5° | 5623.7 | 5608.9 | 5527.5 | 5428.7 | 5349.0  | 5348.1  | 5428.0  | 5816.3  | 6100.0  | 6490.0  | 5566.9 |
| 25°   | 6038.3 | 6014.5 | 5893.6 | 5735.6 | 5595.7  | 5542.4  | 5564.6  | 5808.8  | 6034.3  | 6666.1  | 5634.3 |
| 27.5° | 6525.4 | 6481.8 | 6338.6 | 6110.7 | 5905.1  | 5797.3  | 5765.2  | 5942.9  | 6094.3  | 6884.0  | 5728.2 |
| 30°   | 7116.1 | 7065.9 | 6882.5 | 6585.5 | 6295.1  | 6118.1  | 6049.8  | 6180.7  | 6293.3  | 7149.8  | 5878.8 |
| 32.5° | 7788.1 | 7715.7 | 7503.5 | 7176.1 | 6794.4  | 6524.6  | 6413.4  | 6494.9  | 6584.5  | 7469.8  | 6067.2 |
| 35°   | 8717.0 | 8630.6 | 8323.8 | 7872.0 | 7441.0  | 7070.0  | 6892.2  | 6951.5  | 7038.7  | 7946.9  | 6339.5 |
| 37.5° | 9350.4 | 9311.7 | 9107.7 | 8683.2 | 8214.3  | 7787.3  | 7512.5  | 7547.1  | 7596.4  | 8543.4  | 6688.3 |
| 40°   | 9344.7 | 9360.2 | 9364.4 | 9368.6 | 9049.3  | 8640.4  | 8345.2  | 8309.0  | 8299.0  | 9198.3  | 7084.8 |
| 42.5° | 8876.5 | 8940.7 | 9148.0 | 9568.3 | 9762.6  | 9574.9  | 9304.4  | 9199.8  | 9148.0  | 9969.8  | 7505.2 |
| 45°   | 8160.1 | 8194.6 | 8582.9 | 9403.8 | 10127.9 | 10500.5 | 10295.7 | 9966.5  | 9872.8  | 10679.1 | 7854.1 |
| 47.5° | 7790.6 | 7828.5 | 8072.8 | 8967.9 | 10123.7 | 11248.2 | 11366.8 | 10739.9 | 10572.1 | 11295.9 | 8155.1 |
| 50°   | 6911.2 | 6990.3 | 7297.8 | 8209.4 | 9754.3  | 11592.2 | 12486.4 | 11661.3 | 11314.2 | 11896.6 | 8457.1 |
| 52.5° | 5296.2 | 5418.0 | 5762.7 | 6962.3 | 8817.4  | 11421.9 | 13382.3 | 12778.4 | 12288.2 | 12518.5 | 8716.2 |
| 55°   | 3340.8 | 3431.3 | 3720.9 | 4917.1 | 7053.5  | 10535.9 | 13722.0 | 13986.9 | 13550.9 | 13107.4 | 8940.7 |
| 57.5° | 1816.5 | 1856.7 | 1965.3 | 2714.8 | 4588.1  | 8577.0  | 13226.9 | 14674.7 | 14493.8 | 13607.6 | 9110.3 |
| 58°   | 1625.7 | 1652.7 | 1720.2 | 2352.8 | 4069.0  | 8041.5  | 13007.2 | 14677.1 | 14586.7 | 13680.8 | 9123.4 |
| 60°   | 1206.1 | 1192.1 | 1132.0 | 1342.5 | 2264.7  | 5555.5  | 11679.4 | 14089.7 | 14355.5 | 13770.6 | 9059.1 |
| 62.5° | 1059.6 | 1025.9 | 903.2  | 889.3  | 1101.5  | 2559.4  | 8936.6  | 12069.3 | 12697.1 | 13258.9 | 8669.3 |
| 65°   | 995.4  | 959.2  | 801.3  | 750.3  | 794.7   | 1082.6  | 5264.2  | 9051.9  | 9839.0  | 11707.3 | 7672.2 |
| 67.5° | 947.7  | 900.8  | 736.3  | 666.4  | 669.6   | 715.7   | 2110.1  | 5701.1  | 6587.1  | 8888.9  | 5967.6 |
| 70°   | 901.7  | 850.7  | 681.2  | 600.5  | 581.7   | 566.0   | 839.0   | 2853.8  | 3657.5  | 5614.6  | 3804.9 |
| 72.5° | 852.3  | 802.0  | 632.6  | 548.8  | 511.8   | 459.8   | 547.8   | 1167.3  | 1630.6  | 2656.4  | 1726.0 |
| 75°   | 780.6  | 735.4  | 584.1  | 502.6  | 450.1   | 380.9   | 413.8   | 609.6   | 731.3   | 1057.9  | 831.7  |
| 77.5° | 692.8  | 655.7  | 529.8  | 464.9  | 398.9   | 309.3   | 318.4   | 422.8   | 468.9   | 605.5   | 494.3  |
| 80°   | 497.8  | 510.9  | 471.4  | 417.9  | 355.4   | 250.8   | 244.2   | 308.5   | 333.2   | 389.1   | 321.7  |
| 82.5° | 349.6  | 357.0  | 390.0  | 341.4  | 293.7   | 197.4   | 180.2   | 217.2   | 232.0   | 255.8   | 173.6  |
| 85°   | 241.0  | 232.8  | 267.3  | 237.7  | 212.3   | 131.6   | 123.3   | 147.2   | 156.3   | 158.8   | 89.7   |
| 87.5° | 144.7  | 144.7  | 154.7  | 127.5  | 114.4   | 68.4    | 66.7    | 83.9    | 89.7    | 85.6    | 49.3   |
| 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°    | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 |
| 2.5°  | 4653.0 | 4594.7 | 4470.3 | 4370.9 | 4244.9 | 4114.1 | 4040.9 | 3962.8 | 3909.3 | 3870.6 | 3932.3 |
| 5°    | 4688.3 | 4569.0 | 4312.5 | 4069.0 | 3799.9 | 3520.2 | 3307.9 | 3110.6 | 2973.1 | 2887.5 | 2968.2 |
| 7.5°  | 4744.3 | 4560.9 | 4152.0 | 3735.7 | 3252.9 | 2787.3 | 2370.9 | 2110.1 | 1957.9 | 1883.0 | 1930.0 |
| 10°   | 4808.4 | 4547.7 | 3963.6 | 3284.1 | 2593.0 | 2006.5 | 1695.6 | 1590.2 | 1555.7 | 1541.8 | 1548.3 |
| 12.5° | 4861.9 | 4519.7 | 3732.5 | 2737.9 | 1947.3 | 1584.4 | 1494.8 | 1492.4 | 1499.7 | 1501.3 | 1503.9 |
| 15°   | 4899.7 | 4478.6 | 3389.3 | 2168.6 | 1557.3 | 1443.8 | 1438.8 | 1453.6 | 1467.7 | 1473.4 | 1476.6 |
| 17.5° | 4925.2 | 4393.9 | 3001.9 | 1714.4 | 1395.2 | 1375.5 | 1387.1 | 1405.9 | 1420.7 | 1424.8 | 1428.1 |
| 20°   | 4922.8 | 4269.6 | 2540.3 | 1429.8 | 1307.3 | 1307.3 | 1326.9 | 1341.8 | 1342.5 | 1337.7 | 1340.1 |
| 22.5° | 4897.3 | 4099.3 | 2092.8 | 1278.4 | 1229.1 | 1243.1 | 1262.7 | 1248.9 | 1191.2 | 1153.3 | 1155.8 |
| 25°   | 4854.5 | 3896.0 | 1709.6 | 1182.2 | 1156.7 | 1181.4 | 1175.6 | 1070.3 | 988.0  | 950.9  | 950.9  |
| 27.5° | 4816.7 | 3655.9 | 1415.0 | 1098.3 | 1084.3 | 1114.6 | 1012.7 | 917.3  | 882.8  | 865.4  | 859.7  |
| 30°   | 4789.6 | 3396.9 | 1218.5 | 1017.6 | 1016.1 | 993.7  | 878.6  | 852.3  | 846.6  | 832.5  | 827.6  |
| 32.5° | 4796.1 | 3134.4 | 1092.5 | 947.0  | 952.7  | 850.7  | 814.5  | 820.2  | 815.2  | 800.5  | 793.8  |
| 35°   | 4850.4 | 2885.0 | 1010.2 | 882.8  | 865.4  | 768.4  | 776.6  | 787.3  | 785.7  | 765.0  | 758.4  |
| 37.5° | 4947.5 | 2649.0 | 955.9  | 829.2  | 755.2  | 727.3  | 740.5  | 756.8  | 752.7  | 738.8  | 733.8  |
| 40°   | 5049.6 | 2426.9 | 911.5  | 787.3  | 690.2  | 699.3  | 710.7  | 719.8  | 723.9  | 728.0  | 724.8  |
| 42.5° | 5149.1 | 2194.9 | 857.3  | 744.5  | 663.0  | 672.9  | 678.0  | 686.9  | 709.1  | 724.8  | 723.9  |
| 45°   | 5208.4 | 1976.9 | 801.3  | 683.6  | 641.7  | 647.5  | 644.2  | 662.2  | 689.4  | 715.0  | 715.7  |
| 47.5° | 5274.0 | 1807.4 | 756.8  | 627.6  | 621.1  | 625.2  | 615.3  | 633.5  | 658.1  | 689.4  | 692.8  |
| 50°   | 5353.9 | 1706.2 | 721.5  | 583.3  | 593.2  | 593.2  | 590.6  | 607.2  | 641.7  | 678.0  | 684.5  |
| 52.5° | 5444.4 | 1686.5 | 691.9  | 551.2  | 565.2  | 564.3  | 566.8  | 591.5  | 629.4  | 664.7  | 670.5  |
| 55°   | 5554.6 | 1739.9 | 659.7  | 527.3  | 538.1  | 541.3  | 549.6  | 577.5  | 609.6  | 650.0  | 652.3  |
| 57.5° | 5682.9 | 1848.5 | 634.3  | 508.4  | 513.3  | 524.0  | 537.1  | 562.7  | 597.3  | 641.7  | 644.2  |
| 58°   | 5704.3 | 1871.6 | 630.3  | 506.7  | 508.4  | 520.7  | 535.6  | 560.3  | 594.8  | 643.4  | 645.8  |
| 60°   | 5705.1 | 1948.1 | 621.1  | 499.4  | 489.4  | 510.1  | 526.4  | 551.2  | 590.6  | 649.0  | 654.9  |
| 62.5° | 5502.7 | 1947.3 | 614.5  | 488.7  | 469.8  | 495.2  | 514.2  | 542.9  | 586.6  | 663.0  | 674.5  |
| 65°   | 4845.5 | 1769.5 | 583.3  | 472.1  | 454.2  | 482.1  | 503.5  | 537.1  | 598.1  | 723.9  | 731.3  |
| 67.5° | 3789.9 | 1450.4 | 524.9  | 449.2  | 433.5  | 468.9  | 496.9  | 536.4  | 610.4  | 738.0  | 742.9  |
| 70°   | 2505.8 | 1085.2 | 460.7  | 422.8  | 412.1  | 453.3  | 500.1  | 564.3  | 596.5  | 708.4  | 695.2  |
| 72.5° | 1300.7 | 761.9  | 408.9  | 390.0  | 387.4  | 439.4  | 547.8  | 561.0  | 582.5  | 666.4  | 650.0  |
| 75°   | 682.8  | 529.0  | 363.6  | 353.8  | 357.9  | 435.9  | 646.6  | 546.3  | 564.3  | 637.5  | 668.8  |
| 77.5° | 417.9  | 427.0  | 324.9  | 320.9  | 329.0  | 426.2  | 645.8  | 527.3  | 538.1  | 586.6  | 621.1  |
| 80°   | 279.7  | 346.3  | 295.4  | 296.1  | 301.9  | 390.0  | 579.9  | 497.8  | 505.9  | 554.4  | 589.8  |
| 82.5° | 176.8  | 204.9  | 268.1  | 282.2  | 274.8  | 321.7  | 492.8  | 453.3  | 464.9  | 634.3  | 670.5  |
| 85°   | 89.7   | 128.4  | 232.8  | 271.5  | 247.7  | 225.5  | 399.8  | 397.3  | 403.1  | 457.3  | 478.0  |
| 87.5° | 41.1   | 70.7   | 181.7  | 237.0  | 186.8  | 140.7  | 290.4  | 294.6  | 317.6  | 324.9  | 324.9  |
| 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)