

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: P193522

Luminaire Tested: **GAN-AF-04-LED-U-AFL-8030-1200-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193522  
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-04-LED-U-AFL-8030-1200-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22051 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 258  
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

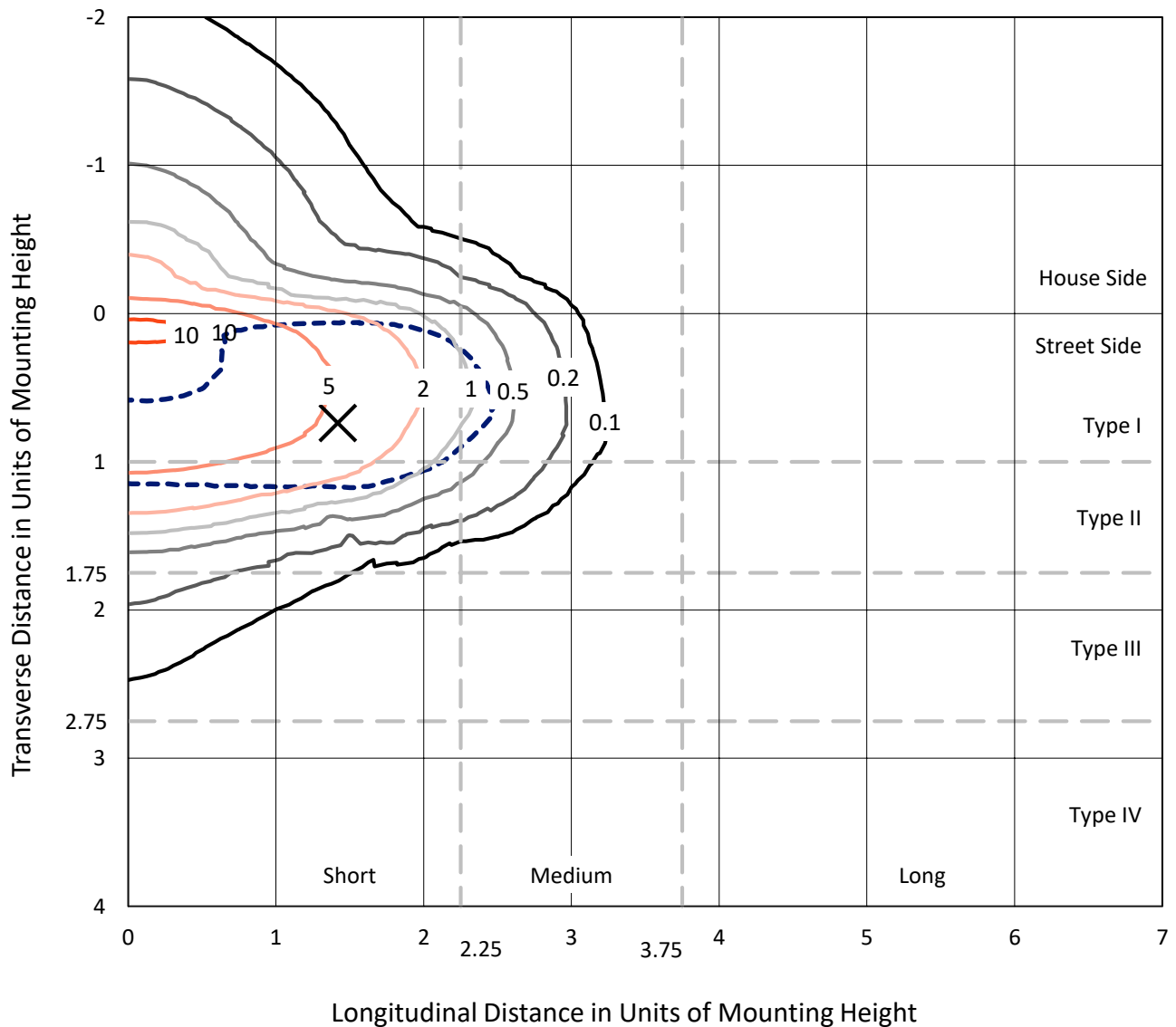


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

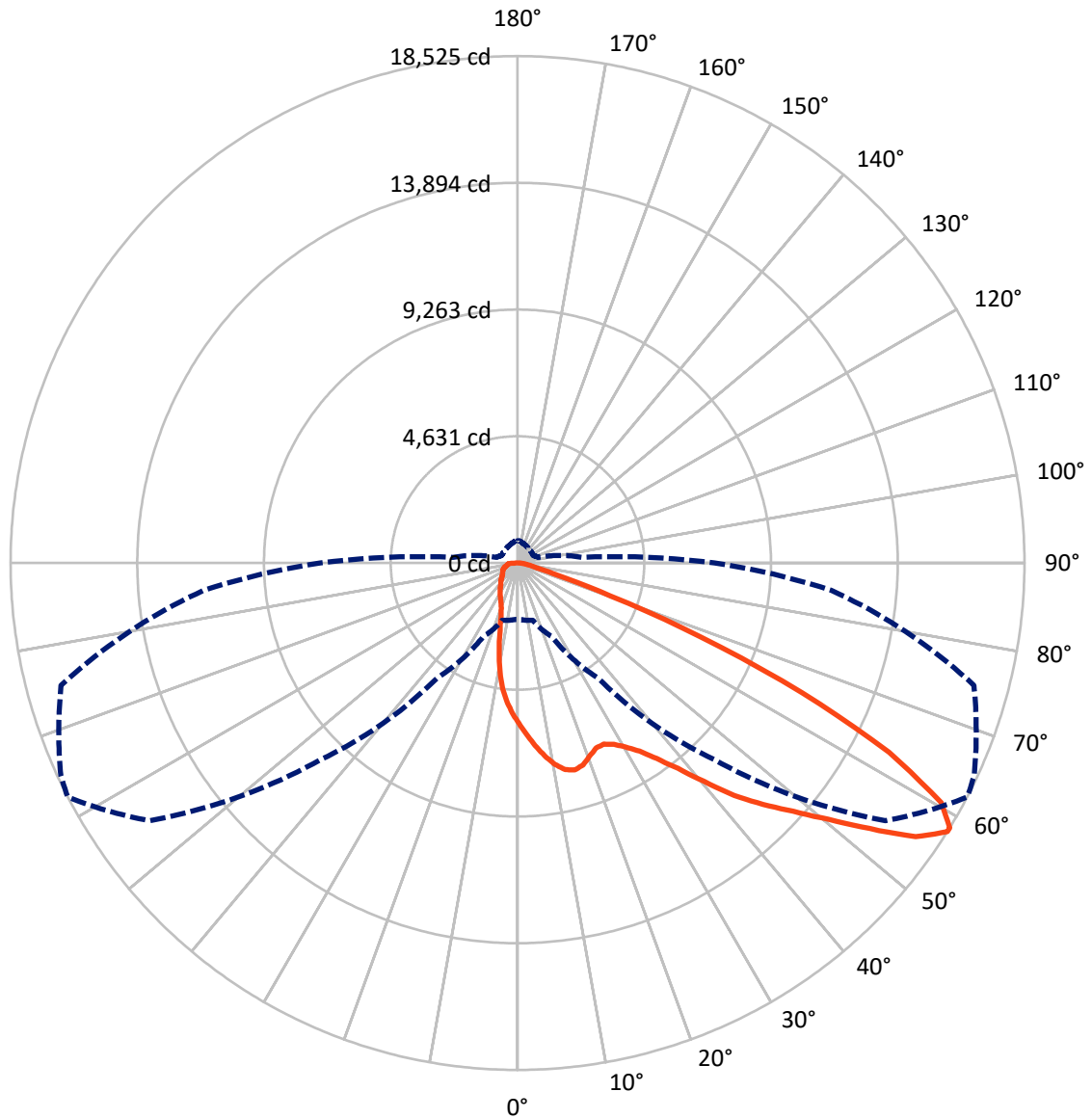


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Short - Full Cutoff

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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    | 3362.9   | 0.0    | 3362.9  |
|                    | % Fixture | 15.3     | 0.0    | 15.3    |
| <b>Street Side</b> | Lumens    | 18688.1  | 0.0    | 18688.1 |
|                    | % Fixture | 84.7     | 0.0    | 84.7    |
| <b>Total</b>       | Lumens    | 22051.0  | 0.0    | 22051.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 523.9   | 2.4       |
| 10°-20°   | 1339.1  | 6.1       |
| 20°-30°   | 2164.6  | 9.8       |
| 30°-40°   | 3436.3  | 15.6      |
| 40°-50°   | 5028.1  | 22.8      |
| 50°-60°   | 5259.0  | 23.8      |
| 60°-70°   | 3107.0  | 14.1      |
| 70°-80°   | 875.3   | 4.0       |
| 80°-90°   | 317.8   | 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°    | 22051.0 | 100.0     |
| 0°-180°   | 22051.0 | 100.0     |

**Coefficient of Utilization**



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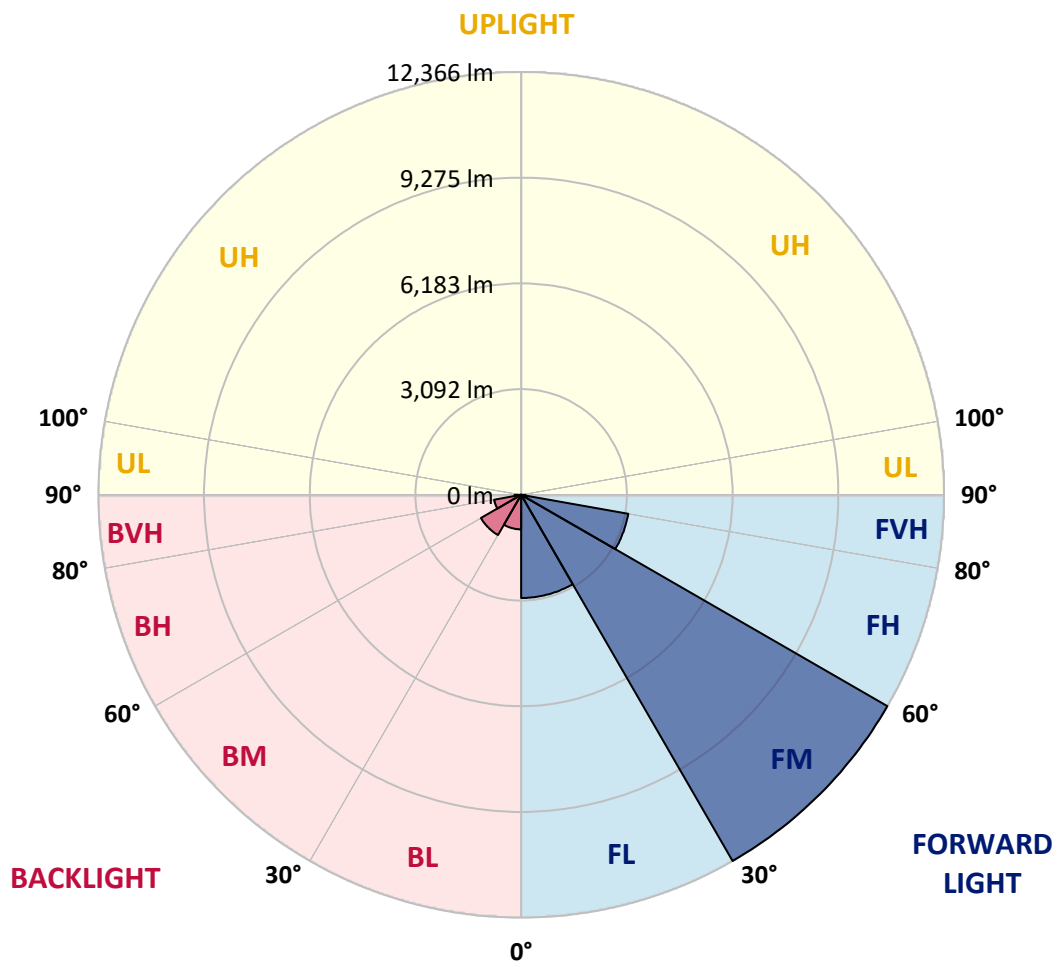
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3016.9  | 13.7      |                         |      |         |
| FM (30°-60°)   | 12366.1 | 56.1      |                         |      |         |
| FH (60°-80°)   | 3179.8  | 14.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 125.4   | 0.6       |                         |      | G2/225  |
| BL (0°-30°)    | 1010.7  | 4.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 1357.3  | 6.2       | B2/2500                 |      |         |
| BH (60°-80°)   | 802.4   | 3.6       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 192.4   | 0.9       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-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°    | 5857.4  | 5857.4  | 5857.4  | 5857.4  | 5857.4  | 5857.4  | 5857.4  | 5857.4  | 5857.4  | 5857.4  | 5857.4  |
| 2.5°  | 6693.3  | 6639.3  | 6605.0  | 6574.9  | 6535.4  | 6451.3  | 6338.2  | 6266.5  | 6230.2  | 6106.6  | 5960.2  |
| 5°    | 7349.5  | 7301.8  | 7266.5  | 7226.0  | 7155.4  | 7023.5  | 6840.7  | 6695.4  | 6623.7  | 6376.6  | 6083.8  |
| 7.5°  | 7195.8  | 7215.6  | 7276.8  | 7383.8  | 7475.2  | 7457.5  | 7294.5  | 7109.7  | 7015.2  | 6671.5  | 6227.1  |
| 10°   | 6269.6  | 6303.9  | 6409.8  | 6660.1  | 7065.0  | 7480.4  | 7607.0  | 7479.3  | 7383.8  | 6963.3  | 6374.5  |
| 12.5° | 6083.8  | 6082.7  | 6091.0  | 6157.5  | 6398.4  | 6983.0  | 7617.4  | 7746.2  | 7689.1  | 7241.5  | 6525.1  |
| 15°   | 6159.6  | 6161.6  | 6155.4  | 6183.4  | 6258.2  | 6489.8  | 7299.7  | 7849.0  | 7889.5  | 7521.9  | 6680.8  |
| 17.5° | 6358.9  | 6353.7  | 6329.9  | 6329.9  | 6356.9  | 6447.2  | 6925.9  | 7753.4  | 7940.4  | 7770.1  | 6817.9  |
| 20°   | 6693.3  | 6669.4  | 6606.1  | 6547.9  | 6518.8  | 6567.6  | 6772.2  | 7533.3  | 7852.1  | 7987.1  | 6931.1  |
| 22.5° | 7098.2  | 7079.6  | 6976.8  | 6852.1  | 6751.4  | 6750.4  | 6851.1  | 7341.2  | 7699.5  | 8191.6  | 7026.6  |
| 25°   | 7621.6  | 7591.5  | 7438.8  | 7239.5  | 7062.9  | 6995.4  | 7023.5  | 7331.9  | 7616.4  | 8413.8  | 7111.7  |
| 27.5° | 8236.3  | 8181.3  | 8000.6  | 7713.0  | 7453.4  | 7317.3  | 7276.8  | 7501.1  | 7692.2  | 8689.0  | 7230.1  |
| 30°   | 8981.8  | 8918.5  | 8686.9  | 8312.1  | 7945.5  | 7722.3  | 7636.1  | 7801.2  | 7943.5  | 9024.4  | 7420.1  |
| 32.5° | 9830.2  | 9738.8  | 9470.9  | 9057.6  | 8575.8  | 8235.2  | 8095.1  | 8197.9  | 8311.0  | 9428.3  | 7657.9  |
| 35°   | 11002.5 | 10893.5 | 10506.1 | 9936.1  | 9392.0  | 8923.7  | 8699.4  | 8774.2  | 8884.2  | 10030.6 | 8001.6  |
| 37.5° | 11802.0 | 11753.2 | 11495.7 | 10959.9 | 10368.0 | 9829.1  | 9482.3  | 9525.9  | 9588.2  | 10783.4 | 8441.9  |
| 40°   | 11794.8 | 11814.5 | 11819.7 | 11824.9 | 11422.0 | 10905.9 | 10533.1 | 10487.5 | 10475.0 | 11609.9 | 8942.4  |
| 42.5° | 11203.9 | 11284.9 | 11546.6 | 12077.2 | 12322.2 | 12085.5 | 11743.9 | 11612.0 | 11546.6 | 12583.9 | 9473.0  |
| 45°   | 10299.5 | 10343.1 | 10833.2 | 11869.5 | 12783.3 | 13253.7 | 12995.1 | 12579.8 | 12461.4 | 13479.0 | 9913.2  |
| 47.5° | 9833.3  | 9881.1  | 10189.4 | 11319.2 | 12778.1 | 14197.5 | 14347.0 | 13555.8 | 13344.0 | 14257.7 | 10293.3 |
| 50°   | 8723.3  | 8823.0  | 9211.3  | 10361.8 | 12311.9 | 14631.6 | 15760.3 | 14718.8 | 14280.6 | 15015.8 | 10674.4 |
| 52.5° | 6685.0  | 6838.7  | 7273.7  | 8787.7  | 11129.2 | 14416.6 | 16891.0 | 16128.9 | 15510.0 | 15800.8 | 11001.4 |
| 55°   | 4216.8  | 4331.0  | 4696.5  | 6206.3  | 8902.9  | 13298.3 | 17319.9 | 17654.2 | 17103.9 | 16544.2 | 11284.9 |
| 57.5° | 2292.7  | 2343.6  | 2480.6  | 3426.6  | 5790.9  | 10826.0 | 16694.8 | 18522.3 | 18293.9 | 17175.5 | 11498.8 |
| 58°   | 2051.8  | 2086.1  | 2171.2  | 2969.7  | 5135.7  | 10150.0 | 16417.5 | 18525.4 | 18411.2 | 17268.0 | 11515.4 |
| 60°   | 1522.2  | 1504.6  | 1428.8  | 1694.6  | 2858.6  | 7012.1  | 14741.6 | 17784.0 | 18119.4 | 17381.1 | 11434.4 |
| 62.5° | 1337.4  | 1294.8  | 1140.1  | 1122.5  | 1390.4  | 3230.3  | 11279.7 | 15233.8 | 16026.1 | 16735.3 | 10942.3 |
| 65°   | 1256.4  | 1210.7  | 1011.4  | 947.0   | 1003.1  | 1366.5  | 6644.5  | 11425.1 | 12418.8 | 14776.9 | 9683.8  |
| 67.5° | 1196.2  | 1137.0  | 929.3   | 841.1   | 845.2   | 903.4   | 2663.4  | 7195.8  | 8314.2  | 11219.5 | 7532.3  |
| 70°   | 1138.0  | 1073.7  | 859.8   | 758.0   | 734.1   | 714.4   | 1059.1  | 3602.1  | 4616.6  | 7086.8  | 4802.4  |
| 72.5° | 1075.7  | 1012.4  | 798.5   | 692.6   | 645.9   | 580.4   | 691.5   | 1473.4  | 2058.0  | 3352.9  | 2178.5  |
| 75°   | 985.4   | 928.3   | 737.2   | 634.4   | 568.0   | 480.8   | 522.3   | 769.4   | 923.1   | 1335.3  | 1049.8  |
| 77.5° | 874.3   | 827.6   | 668.7   | 586.7   | 503.6   | 390.4   | 401.8   | 533.7   | 591.9   | 764.2   | 624.1   |
| 80°   | 628.2   | 644.8   | 595.0   | 527.5   | 448.6   | 316.7   | 308.4   | 389.4   | 420.5   | 491.1   | 406.0   |
| 82.5° | 441.3   | 450.6   | 492.2   | 430.9   | 370.7   | 249.2   | 227.4   | 274.1   | 292.8   | 322.9   | 219.1   |
| 85°   | 304.2   | 293.9   | 337.5   | 300.1   | 267.9   | 166.1   | 155.8   | 185.9   | 197.3   | 200.4   | 113.2   |
| 87.5° | 182.8   | 182.8   | 195.2   | 160.9   | 144.3   | 86.2    | 84.1    | 105.9   | 113.2   | 108.0   | 62.3    |
| 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°    | 5857.4 | 5857.4 | 5857.4 | 5857.4 | 5857.4 | 5857.4 | 5857.4 | 5857.4 | 5857.4 | 5857.4 | 5857.4 |
| 2.5°  | 5873.0 | 5799.3 | 5642.5 | 5516.8 | 5357.9 | 5192.8 | 5100.4 | 5001.8 | 4934.3 | 4885.5 | 4963.4 |
| 5°    | 5917.6 | 5767.1 | 5443.1 | 5135.7 | 4796.2 | 4443.2 | 4175.3 | 3926.0 | 3752.6 | 3644.7 | 3746.4 |
| 7.5°  | 5988.2 | 5756.7 | 5240.6 | 4715.2 | 4105.7 | 3518.0 | 2992.6 | 2663.4 | 2471.3 | 2376.8 | 2436.0 |
| 10°   | 6069.2 | 5740.1 | 5002.8 | 4145.1 | 3272.9 | 2532.6 | 2140.1 | 2007.2 | 1963.5 | 1945.9 | 1954.2 |
| 12.5° | 6136.7 | 5704.8 | 4711.0 | 3455.7 | 2457.8 | 1999.9 | 1886.7 | 1883.6 | 1892.9 | 1895.0 | 1898.1 |
| 15°   | 6184.5 | 5652.8 | 4278.1 | 2737.1 | 1965.6 | 1822.3 | 1816.1 | 1834.8 | 1852.4 | 1859.7 | 1863.9 |
| 17.5° | 6216.7 | 5545.9 | 3789.0 | 2163.9 | 1761.1 | 1736.1 | 1750.7 | 1774.6 | 1793.3 | 1798.4 | 1802.6 |
| 20°   | 6213.6 | 5389.1 | 3206.5 | 1804.7 | 1650.0 | 1650.0 | 1674.9 | 1693.6 | 1694.6 | 1688.4 | 1691.5 |
| 22.5° | 6181.4 | 5174.2 | 2641.6 | 1613.6 | 1551.3 | 1569.0 | 1593.9 | 1576.2 | 1503.5 | 1455.8 | 1458.9 |
| 25°   | 6127.4 | 4917.7 | 2157.7 | 1492.1 | 1459.9 | 1491.1 | 1483.8 | 1350.9 | 1247.1 | 1200.3 | 1200.3 |
| 27.5° | 6079.6 | 4614.5 | 1786.0 | 1386.2 | 1368.6 | 1407.0 | 1278.2 | 1157.8 | 1114.2 | 1092.4 | 1085.1 |
| 30°   | 6045.3 | 4287.4 | 1537.8 | 1284.5 | 1282.4 | 1254.3 | 1109.0 | 1075.7 | 1068.5 | 1050.8 | 1044.6 |
| 32.5° | 6053.6 | 3956.2 | 1378.9 | 1195.2 | 1202.4 | 1073.7 | 1028.0 | 1035.2 | 1029.0 | 1010.3 | 1002.0 |
| 35°   | 6122.2 | 3641.5 | 1275.1 | 1114.2 | 1092.4 | 969.8  | 980.2  | 993.7  | 991.6  | 965.7  | 957.4  |
| 37.5° | 6244.7 | 3343.5 | 1206.6 | 1046.7 | 953.2  | 917.9  | 934.5  | 955.3  | 950.1  | 932.4  | 926.2  |
| 40°   | 6373.5 | 3063.2 | 1150.5 | 993.7  | 871.2  | 882.6  | 897.1  | 908.6  | 913.8  | 919.0  | 914.8  |
| 42.5° | 6499.1 | 2770.3 | 1082.0 | 939.7  | 836.9  | 849.4  | 855.6  | 867.0  | 895.1  | 914.8  | 913.8  |
| 45°   | 6573.9 | 2495.2 | 1011.4 | 862.9  | 809.9  | 817.2  | 813.0  | 835.9  | 870.1  | 902.3  | 903.4  |
| 47.5° | 6656.9 | 2281.3 | 955.3  | 792.3  | 784.0  | 789.2  | 776.7  | 799.5  | 830.7  | 870.1  | 874.3  |
| 50°   | 6757.7 | 2153.6 | 910.6  | 736.2  | 748.7  | 748.7  | 745.5  | 766.3  | 809.9  | 855.6  | 863.9  |
| 52.5° | 6871.9 | 2128.6 | 873.3  | 695.7  | 713.4  | 712.3  | 715.4  | 746.6  | 794.3  | 839.0  | 846.3  |
| 55°   | 7011.0 | 2196.1 | 832.8  | 665.6  | 679.1  | 683.2  | 693.6  | 728.9  | 769.4  | 820.3  | 823.4  |
| 57.5° | 7173.0 | 2333.2 | 800.6  | 641.7  | 647.9  | 661.4  | 678.1  | 710.2  | 753.9  | 809.9  | 813.0  |
| 58°   | 7200.0 | 2362.3 | 795.4  | 639.6  | 641.7  | 657.3  | 676.0  | 707.1  | 750.7  | 812.0  | 815.1  |
| 60°   | 7201.0 | 2458.8 | 784.0  | 630.3  | 617.8  | 643.8  | 664.6  | 695.7  | 745.5  | 819.3  | 826.5  |
| 62.5° | 6945.6 | 2457.8 | 775.7  | 616.8  | 592.9  | 625.1  | 649.0  | 685.3  | 740.4  | 836.9  | 851.5  |
| 65°   | 6116.0 | 2233.5 | 736.2  | 596.0  | 573.2  | 608.5  | 635.5  | 678.1  | 754.9  | 913.8  | 923.1  |
| 67.5° | 4783.7 | 1830.6 | 662.5  | 566.9  | 547.2  | 591.9  | 627.2  | 677.0  | 770.5  | 931.4  | 937.6  |
| 70°   | 3162.9 | 1369.6 | 581.5  | 533.7  | 520.2  | 572.1  | 631.3  | 712.3  | 752.8  | 894.0  | 877.4  |
| 72.5° | 1641.7 | 961.5  | 516.1  | 492.2  | 489.1  | 554.5  | 691.5  | 708.2  | 735.2  | 841.1  | 820.3  |
| 75°   | 861.8  | 667.7  | 459.0  | 446.5  | 451.7  | 550.3  | 816.2  | 689.5  | 712.3  | 804.7  | 844.2  |
| 77.5° | 527.5  | 538.9  | 410.2  | 405.0  | 415.3  | 537.9  | 815.1  | 665.6  | 679.1  | 740.4  | 784.0  |
| 80°   | 353.0  | 437.2  | 372.8  | 373.8  | 381.1  | 492.2  | 732.0  | 628.2  | 638.6  | 699.9  | 744.5  |
| 82.5° | 223.2  | 258.6  | 338.5  | 356.2  | 346.8  | 406.0  | 622.0  | 572.1  | 586.7  | 800.6  | 846.3  |
| 85°   | 113.2  | 162.0  | 293.9  | 342.7  | 312.5  | 284.5  | 504.6  | 501.5  | 508.8  | 577.3  | 603.3  |
| 87.5° | 51.9   | 89.3   | 229.5  | 299.0  | 235.7  | 177.6  | 366.5  | 371.7  | 400.8  | 410.2  | 410.2  |
| 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)