

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: P268654

Luminaire Tested: **GAN-AF-07-LED-U-AFL-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268654  
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-07-LED-U-AFL-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 24725.5 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 226  
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

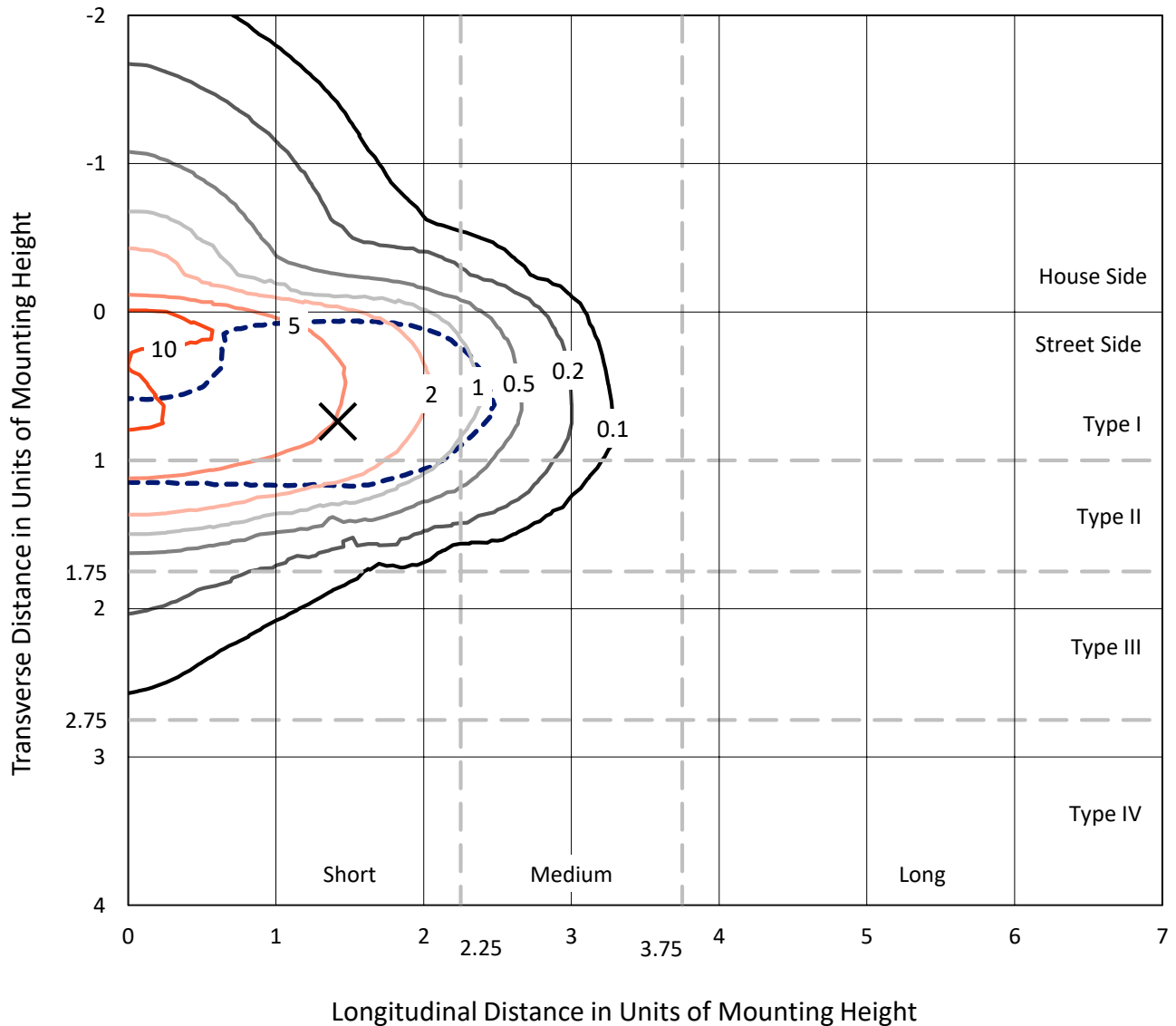


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### Iso-Footcandle Lines of Horizontal Illumination

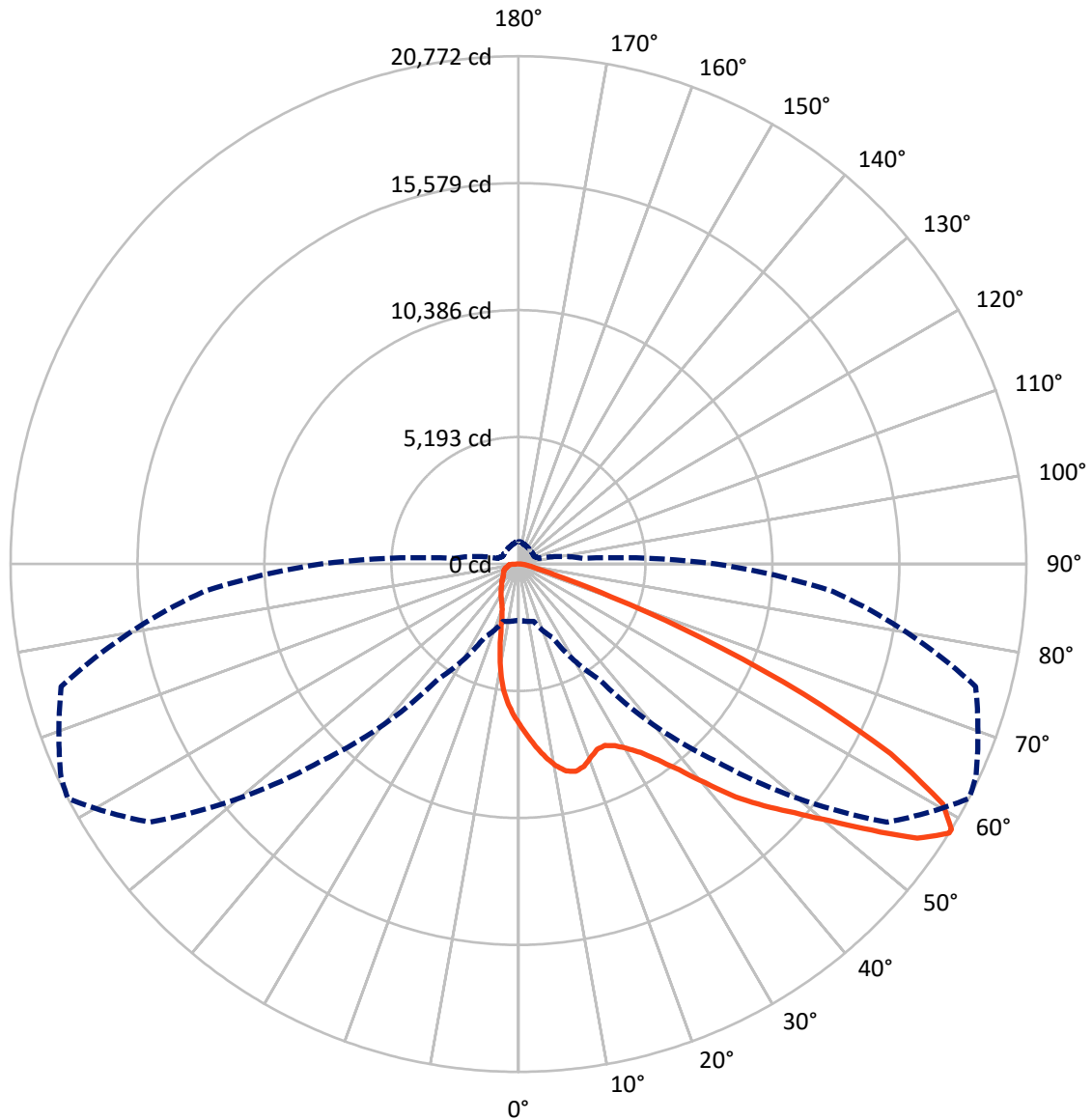
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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    | 3770.7   | 0.0    | 3770.7  |
|                    | % Fixture | 15.3     | 0.0    | 15.3    |
| <b>Street Side</b> | Lumens    | 20954.7  | 0.0    | 20954.7 |
|                    | % Fixture | 84.7     | 0.0    | 84.7    |
| <b>Total</b>       | Lumens    | 24725.5  | 0.0    | 24725.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 587.4   | 2.4       |
| 10°-20°   | 1501.5  | 6.1       |
| 20°-30°   | 2427.2  | 9.8       |
| 30°-40°   | 3853.1  | 15.6      |
| 40°-50°   | 5637.9  | 22.8      |
| 50°-60°   | 5896.8  | 23.8      |
| 60°-70°   | 3483.8  | 14.1      |
| 70°-80°   | 981.4   | 4.0       |
| 80°-90°   | 356.3   | 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°    | 24725.5 | 100.0     |
| 0°-180°   | 24725.5 | 100.0     |



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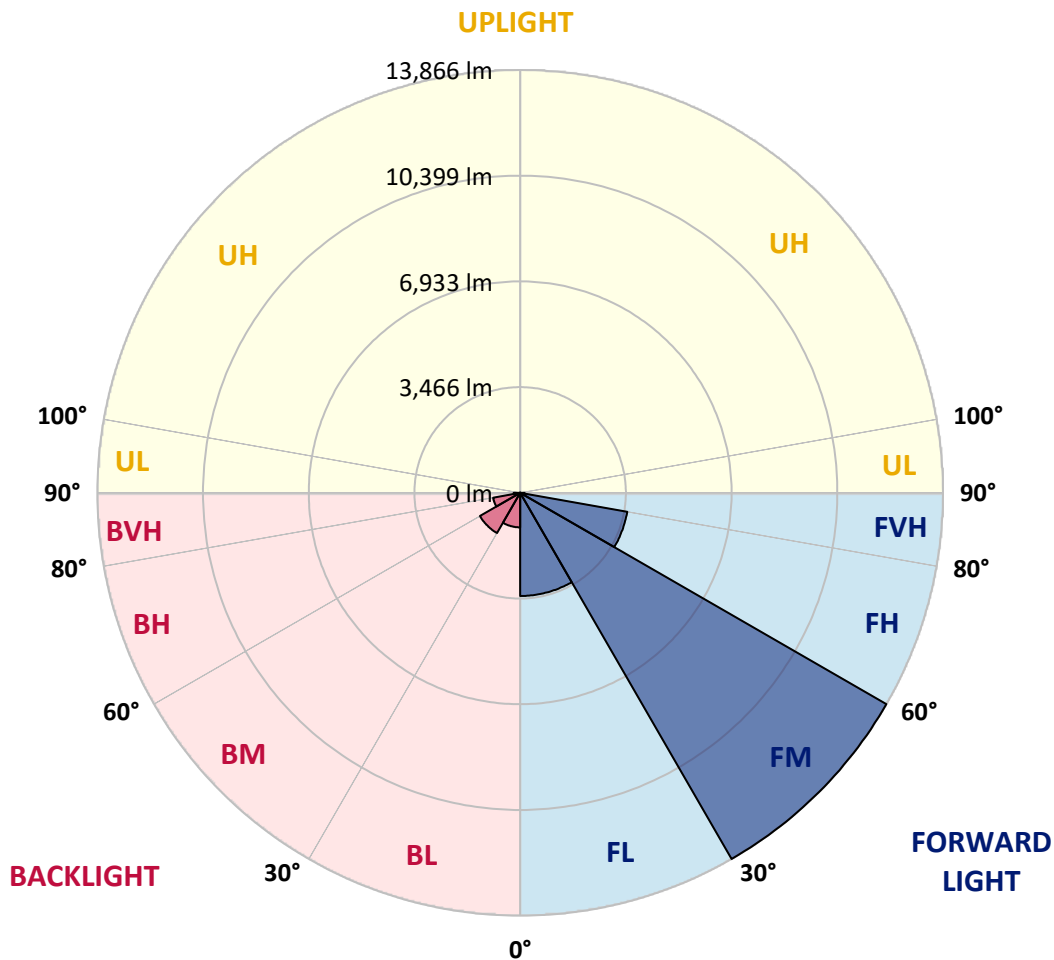
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3382.8  | 13.7      |                         |      |         |
| FM   | (30°-60°)   | 13865.9 | 56.1      |                         |      |         |
| FH   | (60°-80°)   | 3565.5  | 14.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 140.6   | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1133.3  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1522.0  | 6.2       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 899.7   | 3.6       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 215.7   | 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°    | 6567.8  | 6567.8  | 6567.8  | 6567.8  | 6567.8  | 6567.8  | 6567.8  | 6567.8  | 6567.8  | 6567.8  | 6567.8  |
| 2.5°  | 7505.1  | 7444.6  | 7406.2  | 7372.4  | 7328.2  | 7233.8  | 7106.9  | 7026.5  | 6985.8  | 6847.2  | 6683.1  |
| 5°    | 8241.0  | 8187.3  | 8147.7  | 8102.4  | 8023.2  | 7875.4  | 7670.4  | 7507.5  | 7427.0  | 7150.0  | 6821.5  |
| 7.5°  | 8068.5  | 8090.8  | 8159.5  | 8279.4  | 8381.7  | 8362.1  | 8179.2  | 7972.0  | 7866.0  | 7480.6  | 6982.3  |
| 10°   | 7030.0  | 7068.5  | 7187.2  | 7467.8  | 7922.0  | 8387.7  | 8529.6  | 8386.4  | 8279.4  | 7807.8  | 7147.6  |
| 12.5° | 6821.5  | 6820.6  | 6829.9  | 6904.4  | 7174.5  | 7829.9  | 8541.4  | 8685.7  | 8621.7  | 8119.8  | 7316.4  |
| 15°   | 6906.6  | 6909.0  | 6901.9  | 6933.4  | 7017.2  | 7276.9  | 8185.0  | 8801.0  | 8846.4  | 8434.1  | 7491.1  |
| 17.5° | 7130.1  | 7124.4  | 7097.6  | 7097.6  | 7127.8  | 7229.1  | 7765.8  | 8693.8  | 8903.5  | 8712.4  | 7644.8  |
| 20°   | 7505.1  | 7478.3  | 7407.2  | 7342.0  | 7309.5  | 7364.1  | 7593.6  | 8447.0  | 8804.5  | 8955.8  | 7771.6  |
| 22.5° | 7959.2  | 7938.2  | 7822.9  | 7683.3  | 7570.2  | 7569.1  | 7682.0  | 8231.6  | 8633.3  | 9185.2  | 7878.9  |
| 25°   | 8545.9  | 8512.2  | 8341.0  | 8117.5  | 7919.5  | 7843.9  | 7875.4  | 8221.1  | 8540.1  | 9434.3  | 7974.3  |
| 27.5° | 9235.3  | 9173.5  | 8971.0  | 8648.4  | 8357.3  | 8204.8  | 8159.5  | 8410.9  | 8625.2  | 9742.8  | 8107.1  |
| 30°   | 10071.2 | 10000.2 | 9740.5  | 9320.3  | 8909.2  | 8658.9  | 8562.3  | 8747.3  | 8907.0  | 10119.0 | 8320.1  |
| 32.5° | 11022.5 | 10919.9 | 10619.7 | 10156.1 | 9615.9  | 9234.0  | 9077.0  | 9192.1  | 9319.0  | 10571.9 | 8586.7  |
| 35°   | 12337.0 | 12214.7 | 11780.5 | 11141.1 | 10531.1 | 10006.0 | 9754.5  | 9838.3  | 9961.8  | 11247.1 | 8972.1  |
| 37.5° | 13233.4 | 13178.8 | 12890.0 | 12289.3 | 11625.5 | 11021.2 | 10632.3 | 10681.2 | 10751.2 | 12091.2 | 9465.8  |
| 40°   | 13225.2 | 13247.5 | 13253.2 | 13259.1 | 12807.3 | 12228.6 | 11810.6 | 11759.4 | 11745.5 | 13018.1 | 10026.9 |
| 42.5° | 12562.7 | 12653.6 | 12947.0 | 13541.9 | 13816.8 | 13551.3 | 13168.3 | 13020.4 | 12947.0 | 14110.1 | 10621.9 |
| 45°   | 11548.7 | 11597.6 | 12147.2 | 13309.1 | 14333.7 | 14861.1 | 14571.2 | 14105.5 | 13972.7 | 15113.9 | 11115.5 |
| 47.5° | 11025.9 | 11079.4 | 11425.4 | 12692.1 | 14327.8 | 15919.6 | 16087.1 | 15200.0 | 14962.3 | 15987.0 | 11541.8 |
| 50°   | 9781.3  | 9893.0  | 10328.5 | 11618.6 | 13805.2 | 16406.1 | 17671.7 | 16504.0 | 16012.6 | 16836.9 | 11968.9 |
| 52.5° | 7495.7  | 7668.1  | 8155.9  | 9853.5  | 12479.0 | 16165.2 | 18939.7 | 18085.0 | 17391.1 | 17717.2 | 12335.7 |
| 55°   | 4728.1  | 4856.2  | 5266.1  | 6959.0  | 9982.8  | 14911.1 | 19420.5 | 19795.4 | 19178.4 | 18550.8 | 12653.6 |
| 57.5° | 2570.8  | 2627.8  | 2781.5  | 3842.2  | 6493.3  | 12138.9 | 18719.6 | 20768.9 | 20512.6 | 19258.8 | 12893.5 |
| 58°   | 2300.6  | 2339.0  | 2434.5  | 3329.8  | 5758.7  | 11381.0 | 18408.7 | 20772.2 | 20644.2 | 19362.2 | 12912.1 |
| 60°   | 1706.9  | 1687.0  | 1602.0  | 1900.2  | 3205.3  | 7862.5  | 16529.6 | 19940.9 | 20317.1 | 19489.3 | 12821.2 |
| 62.5° | 1499.6  | 1451.9  | 1278.4  | 1258.6  | 1559.0  | 3622.1  | 12647.7 | 17081.5 | 17969.9 | 18765.1 | 12269.4 |
| 65°   | 1408.8  | 1357.6  | 1134.0  | 1061.8  | 1124.7  | 1532.1  | 7450.4  | 12810.8 | 13925.0 | 16569.1 | 10858.3 |
| 67.5° | 1341.3  | 1275.0  | 1042.0  | 943.1   | 947.7   | 1013.0  | 2986.4  | 8068.5  | 9322.6  | 12580.3 | 8445.9  |
| 70°   | 1276.1  | 1203.9  | 964.1   | 849.9   | 823.1   | 801.1   | 1187.6  | 4039.0  | 5176.6  | 7946.3  | 5384.9  |
| 72.5° | 1206.2  | 1135.2  | 895.3   | 776.6   | 724.3   | 650.8   | 775.4   | 1652.2  | 2307.7  | 3759.5  | 2442.8  |
| 75°   | 1104.9  | 1040.9  | 826.7   | 711.4   | 636.9   | 539.1   | 585.6   | 862.7   | 1035.0  | 1497.2  | 1177.0  |
| 77.5° | 980.3   | 927.9   | 749.8   | 657.7   | 564.7   | 437.7   | 450.6   | 598.5   | 663.7   | 857.0   | 699.7   |
| 80°   | 704.5   | 723.0   | 667.1   | 591.4   | 503.1   | 355.1   | 345.8   | 436.7   | 471.5   | 550.8   | 455.3   |
| 82.5° | 494.8   | 505.2   | 551.9   | 483.2   | 415.6   | 279.5   | 254.9   | 307.4   | 328.3   | 362.0   | 245.6   |
| 85°   | 341.1   | 329.5   | 378.4   | 336.4   | 300.5   | 186.3   | 174.6   | 208.3   | 221.3   | 224.7   | 126.9   |
| 87.5° | 205.0   | 205.0   | 218.8   | 180.5   | 161.9   | 96.7    | 94.3    | 118.8   | 126.9   | 121.1   | 69.9    |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6567.8 | 6567.8 | 6567.8 | 6567.8 | 6567.8 | 6567.8 | 6567.8 | 6567.8 | 6567.8 | 6567.8 | 6567.8 |
| 2.5°  | 6585.2 | 6502.7 | 6326.9 | 6185.9 | 6007.8 | 5822.6 | 5719.1 | 5608.5 | 5532.8 | 5478.0 | 5565.4 |
| 5°    | 6635.3 | 6466.4 | 6103.3 | 5758.7 | 5378.0 | 4982.0 | 4681.6 | 4402.2 | 4207.8 | 4086.7 | 4200.8 |
| 7.5°  | 6714.6 | 6455.0 | 5876.3 | 5287.1 | 4603.6 | 3944.6 | 3355.4 | 2986.4 | 2771.0 | 2665.1 | 2731.4 |
| 10°   | 6805.3 | 6436.3 | 5609.6 | 4647.9 | 3669.8 | 2839.7 | 2399.6 | 2250.7 | 2201.7 | 2182.0 | 2191.2 |
| 12.5° | 6880.9 | 6396.7 | 5282.5 | 3874.7 | 2755.9 | 2242.4 | 2115.6 | 2112.1 | 2122.5 | 2124.9 | 2128.4 |
| 15°   | 6934.6 | 6338.4 | 4796.9 | 3069.1 | 2204.0 | 2043.4 | 2036.4 | 2057.3 | 2077.2 | 2085.2 | 2089.9 |
| 17.5° | 6970.7 | 6218.5 | 4248.5 | 2426.4 | 1974.7 | 1946.6 | 1962.9 | 1989.7 | 2010.8 | 2016.5 | 2021.2 |
| 20°   | 6967.2 | 6042.7 | 3595.3 | 2023.5 | 1850.1 | 1850.1 | 1878.0 | 1898.9 | 1900.2 | 1893.2 | 1896.6 |
| 22.5° | 6931.1 | 5801.8 | 2962.0 | 1809.4 | 1739.5 | 1759.3 | 1787.2 | 1767.4 | 1685.8 | 1632.3 | 1635.9 |
| 25°   | 6870.5 | 5514.2 | 2419.4 | 1673.2 | 1637.0 | 1671.9 | 1663.8 | 1514.7 | 1398.3 | 1345.9 | 1345.9 |
| 27.5° | 6817.0 | 5174.1 | 2002.6 | 1554.3 | 1534.6 | 1577.7 | 1433.2 | 1298.2 | 1249.4 | 1224.8 | 1216.8 |
| 30°   | 6778.6 | 4807.4 | 1724.3 | 1440.3 | 1437.8 | 1406.4 | 1243.4 | 1206.2 | 1198.1 | 1178.2 | 1171.3 |
| 32.5° | 6787.9 | 4436.0 | 1546.3 | 1340.1 | 1348.3 | 1203.9 | 1152.6 | 1160.8 | 1153.9 | 1132.9 | 1123.5 |
| 35°   | 6864.7 | 4083.2 | 1429.7 | 1249.4 | 1224.8 | 1087.5 | 1099.0 | 1114.3 | 1111.9 | 1082.7 | 1073.5 |
| 37.5° | 7002.1 | 3749.0 | 1352.8 | 1173.6 | 1068.9 | 1029.3 | 1047.9 | 1071.1 | 1065.3 | 1045.5 | 1038.6 |
| 40°   | 7146.5 | 3434.7 | 1290.1 | 1114.3 | 976.8  | 989.7  | 1005.9 | 1018.8 | 1024.5 | 1030.4 | 1025.8 |
| 42.5° | 7287.4 | 3106.3 | 1213.3 | 1053.7 | 938.4  | 952.5  | 959.4  | 972.1  | 1003.6 | 1025.8 | 1024.5 |
| 45°   | 7371.2 | 2797.9 | 1134.0 | 967.6  | 908.1  | 916.4  | 911.6  | 937.2  | 975.6  | 1011.9 | 1013.0 |
| 47.5° | 7464.3 | 2558.0 | 1071.1 | 888.3  | 879.0  | 884.9  | 870.8  | 896.5  | 931.5  | 975.6  | 980.3  |
| 50°   | 7577.3 | 2414.7 | 1021.2 | 825.5  | 839.5  | 839.5  | 836.0  | 859.3  | 908.1  | 959.4  | 968.7  |
| 52.5° | 7705.3 | 2386.8 | 979.2  | 780.1  | 799.9  | 798.8  | 802.1  | 837.1  | 890.7  | 940.7  | 948.9  |
| 55°   | 7861.3 | 2462.6 | 933.8  | 746.3  | 761.5  | 766.2  | 777.8  | 817.4  | 862.7  | 919.9  | 923.3  |
| 57.5° | 8043.0 | 2616.1 | 897.6  | 719.5  | 726.5  | 741.7  | 760.2  | 796.3  | 845.2  | 908.1  | 911.6  |
| 58°   | 8073.2 | 2648.8 | 891.8  | 717.1  | 719.5  | 737.0  | 758.0  | 792.8  | 841.8  | 910.5  | 913.9  |
| 60°   | 8074.4 | 2757.1 | 879.0  | 706.7  | 692.8  | 721.9  | 745.1  | 780.1  | 836.0  | 918.6  | 926.8  |
| 62.5° | 7788.0 | 2755.9 | 869.6  | 691.5  | 664.8  | 700.9  | 727.6  | 768.4  | 830.2  | 938.4  | 954.7  |
| 65°   | 6857.8 | 2504.5 | 825.5  | 668.2  | 642.6  | 682.4  | 712.5  | 760.2  | 846.5  | 1024.5 | 1035.0 |
| 67.5° | 5363.9 | 2052.6 | 742.8  | 635.7  | 613.6  | 663.7  | 703.3  | 759.1  | 863.9  | 1044.4 | 1051.3 |
| 70°   | 3546.5 | 1535.7 | 652.0  | 598.5  | 583.3  | 641.5  | 708.0  | 798.8  | 844.0  | 1002.5 | 983.9  |
| 72.5° | 1840.7 | 1078.1 | 578.7  | 551.9  | 548.3  | 621.7  | 775.4  | 794.0  | 824.4  | 943.1  | 919.9  |
| 75°   | 966.3  | 748.6  | 514.5  | 500.6  | 506.5  | 617.0  | 915.2  | 773.1  | 798.8  | 902.3  | 946.5  |
| 77.5° | 591.4  | 604.3  | 459.9  | 454.1  | 465.7  | 603.1  | 913.9  | 746.3  | 761.5  | 830.2  | 879.0  |
| 80°   | 395.9  | 490.1  | 418.0  | 419.1  | 427.4  | 551.9  | 820.8  | 704.5  | 716.0  | 784.7  | 834.9  |
| 82.5° | 250.3  | 290.0  | 379.5  | 399.3  | 388.8  | 455.3  | 697.4  | 641.5  | 657.7  | 897.6  | 948.9  |
| 85°   | 126.9  | 181.6  | 329.5  | 384.2  | 350.5  | 319.0  | 565.8  | 562.3  | 570.6  | 647.4  | 676.5  |
| 87.5° | 58.2   | 100.2  | 257.4  | 335.2  | 264.3  | 199.2  | 411.1  | 416.9  | 449.4  | 459.9  | 459.9  |
| 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)