

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: P192275

Luminaire Tested: **GAN-AF-07-LED-U-T3R-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192275  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
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-T3R-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28363 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

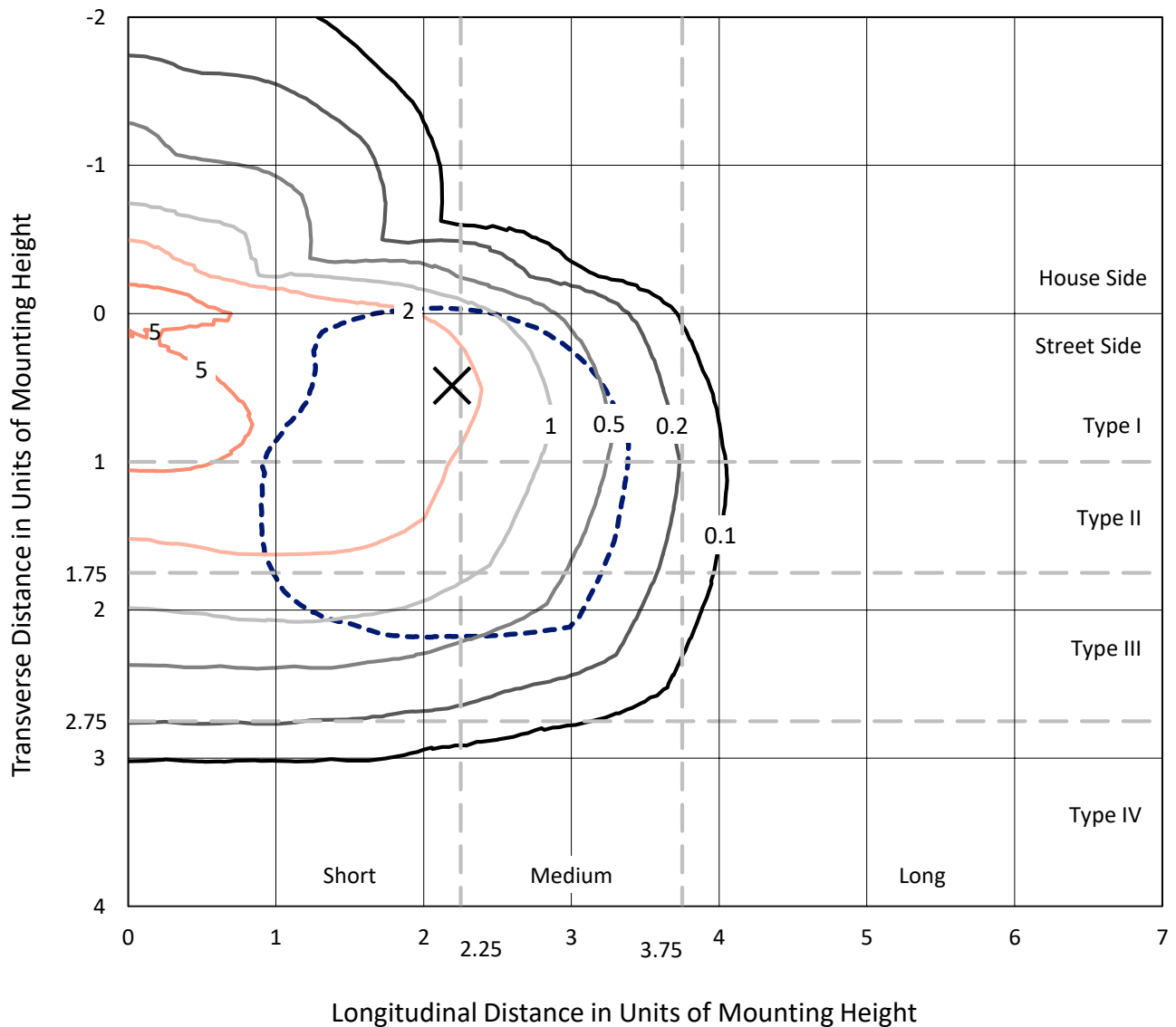
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

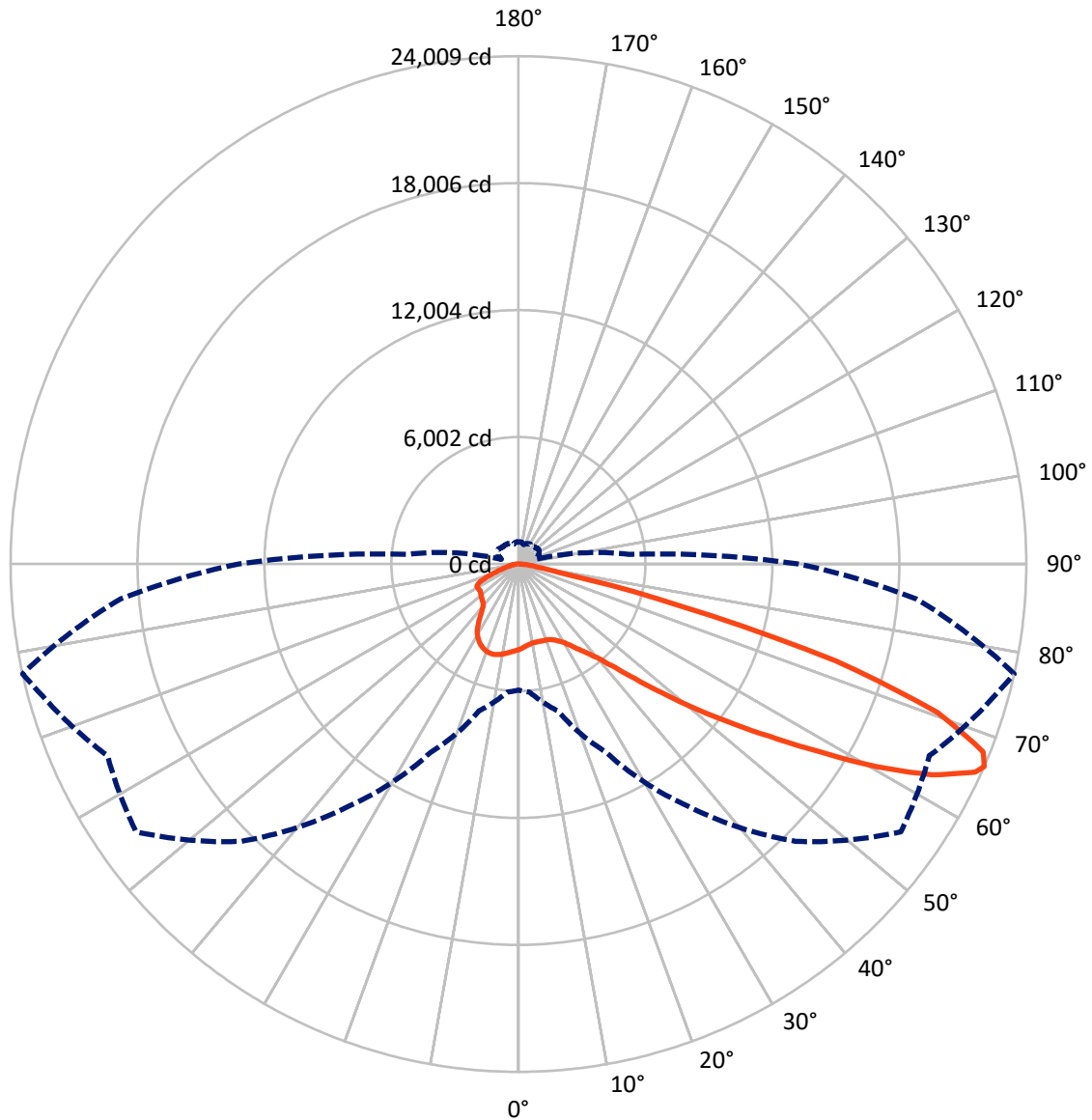
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4845.6   | 0.0    | 4845.6  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 23517.4  | 0.0    | 23517.4 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 28363.0  | 0.0    | 28363.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 361.1   | 1.3       |
| 10°-20°   | 1018.7  | 3.6       |
| 20°-30°   | 1738.6  | 6.1       |
| 30°-40°   | 2783.2  | 9.8       |
| 40°-50°   | 4299.9  | 15.2      |
| 50°-60°   | 6098.7  | 21.5      |
| 60°-70°   | 8158.4  | 28.8      |
| 70°-80°   | 3543.0  | 12.5      |
| 80°-90°   | 361.3   | 1.3       |
| 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°    | 28363.0 | 100.0     |
| 0°-180°   | 28363.0 | 100.0     |



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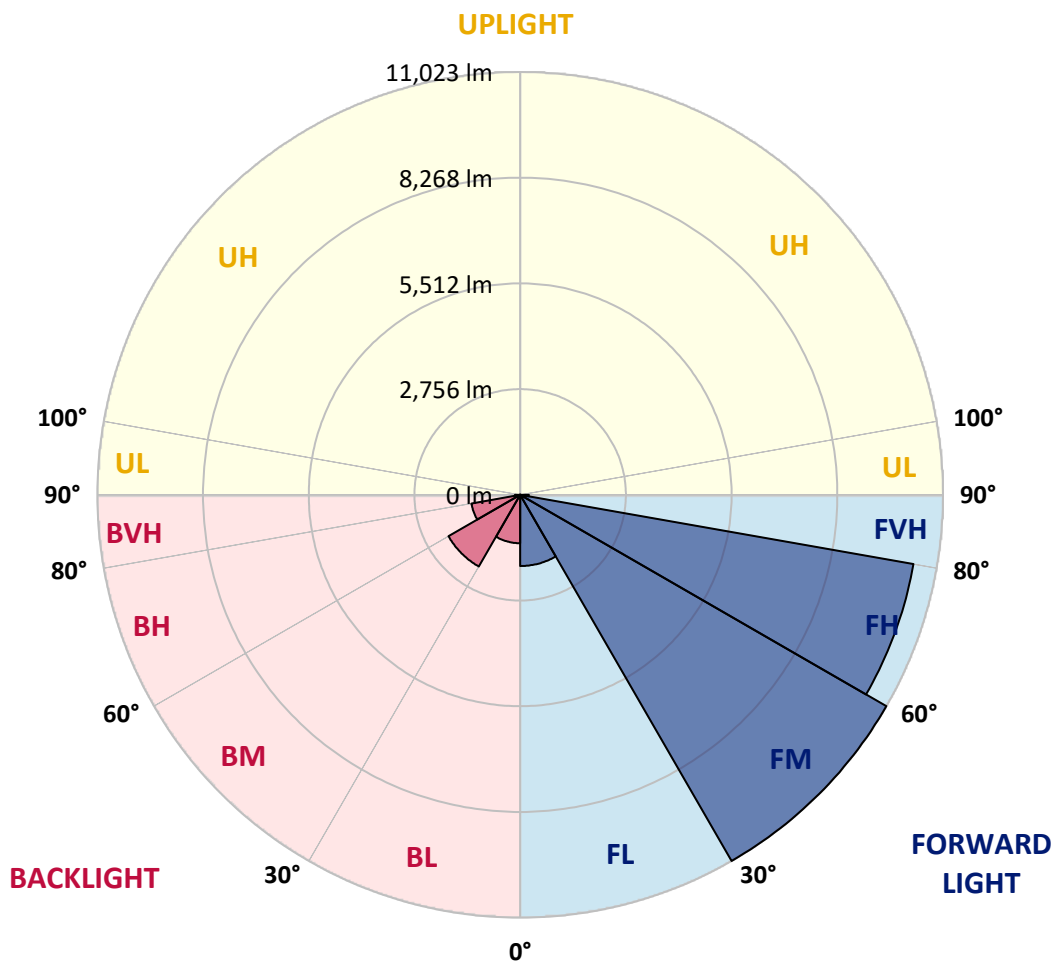
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1856.5  | 6.5       |                         |      |          |
| FM   | (30°-60°)   | 11023.3 | 38.9      |                         |      |          |
| FH   | (60°-80°)   | 10410.9 | 36.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 226.6   | 0.8       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1262.0  | 4.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2158.5  | 7.6       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1290.5  | 4.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 134.7   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77.5°   | 85°     |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4041.9 | 4041.9  | 4041.9  | 4041.9  | 4041.9  | 4041.9  | 4041.9  | 4041.9  | 4041.9  | 4041.9  | 4041.9  |
| 2.5°  | 3575.5 | 3599.6  | 3619.7  | 3638.5  | 3676.0  | 3737.7  | 3808.7  | 3866.3  | 3949.4  | 3965.5  | 4009.7  |
| 5°    | 3247.2 | 3247.2  | 3263.2  | 3291.4  | 3342.3  | 3434.8  | 3531.3  | 3659.9  | 3840.8  | 3883.7  | 4001.7  |
| 7.5°  | 3087.7 | 3089.0  | 3098.4  | 3122.5  | 3166.8  | 3251.2  | 3357.1  | 3508.5  | 3753.7  | 3824.8  | 4025.8  |
| 10°   | 3146.6 | 3133.2  | 3113.1  | 3101.1  | 3107.8  | 3157.4  | 3257.9  | 3426.7  | 3700.1  | 3791.3  | 4079.4  |
| 12.5° | 3476.3 | 3450.9  | 3381.2  | 3288.7  | 3200.3  | 3164.1  | 3223.0  | 3387.9  | 3677.3  | 3783.2  | 4150.4  |
| 15°   | 4015.1 | 4004.3  | 3874.3  | 3682.7  | 3468.3  | 3288.7  | 3248.5  | 3373.1  | 3680.0  | 3792.6  | 4234.8  |
| 17.5° | 4690.5 | 4675.7  | 4504.2  | 4225.5  | 3875.7  | 3525.9  | 3338.3  | 3385.2  | 3689.4  | 3808.7  | 4316.6  |
| 20°   | 5372.6 | 5327.1  | 5142.1  | 4809.8  | 4360.8  | 3848.9  | 3487.0  | 3416.0  | 3701.5  | 3826.1  | 4402.4  |
| 22.5° | 5881.9 | 5844.4  | 5678.2  | 5355.2  | 4837.9  | 4222.8  | 3686.7  | 3469.6  | 3740.3  | 3877.0  | 4508.2  |
| 25°   | 6329.5 | 6332.2  | 6167.3  | 5855.1  | 5320.4  | 4619.5  | 3944.0  | 3613.0  | 3839.5  | 3981.6  | 4653.0  |
| 27.5° | 6883.0 | 6850.8  | 6696.7  | 6387.1  | 5797.4  | 5020.2  | 4254.9  | 3810.0  | 3986.9  | 4130.3  | 4843.3  |
| 30°   | 7545.0 | 7522.2  | 7344.0  | 6992.9  | 6326.8  | 5450.3  | 4610.1  | 4039.2  | 4177.2  | 4326.0  | 5092.5  |
| 32.5° | 8323.6 | 8312.9  | 8127.9  | 7676.3  | 6937.9  | 5956.9  | 5026.9  | 4342.1  | 4461.3  | 4615.4  | 5450.3  |
| 35°   | 9237.6 | 9238.9  | 9020.5  | 8477.7  | 7606.6  | 6546.6  | 5499.9  | 4732.0  | 4807.1  | 4967.9  | 5876.5  |
| 37.5° | 9800.4 | 9868.8  | 9787.0  | 9233.6  | 8363.8  | 7205.9  | 6113.7  | 5249.3  | 5201.1  | 5363.2  | 6333.5  |
| 40°   | 9921.1 | 10004.1 | 10262.8 | 9981.4  | 9210.8  | 7932.3  | 6657.8  | 5746.5  | 5686.2  | 5884.6  | 6921.8  |
| 42.5° | 9752.2 | 9867.5  | 10414.2 | 10612.6 | 10110.0 | 8827.5  | 7389.5  | 6484.9  | 6408.5  | 6675.2  | 7653.5  |
| 45°   | 9651.7 | 9737.5  | 10370.0 | 10940.9 | 10890.0 | 9839.3  | 8320.9  | 7412.3  | 7384.2  | 7733.9  | 8497.8  |
| 47.5° | 9477.5 | 9555.2  | 10163.6 | 11017.3 | 11348.3 | 10766.7 | 9439.9  | 8546.1  | 8601.0  | 9059.3  | 9450.7  |
| 50°   | 9571.3 | 9603.4  | 9933.1  | 10823.0 | 11481.0 | 11446.1 | 10690.3 | 9859.4  | 10047.0 | 10619.3 | 10529.5 |
| 52.5° | 9557.9 | 9641.0  | 9906.3  | 10504.0 | 11498.4 | 11865.6 | 11921.9 | 11324.2 | 11719.5 | 12376.2 | 11726.2 |
| 55°   | 7727.2 | 7880.0  | 9591.4  | 10423.6 | 11560.0 | 12277.0 | 13018.1 | 12868.0 | 13605.1 | 14370.3 | 13077.1 |
| 57.5° | 7378.8 | 7475.3  | 8424.1  | 10592.5 | 11887.0 | 13062.3 | 14237.6 | 14567.3 | 15800.3 | 16688.8 | 14722.8 |
| 60°   | 7310.5 | 7429.7  | 8412.1  | 10798.8 | 12550.4 | 14342.2 | 16045.5 | 16624.4 | 18471.1 | 19444.1 | 16631.1 |
| 62.5° | 7097.4 | 7226.0  | 8333.0  | 10772.0 | 13492.5 | 16112.5 | 18359.9 | 18811.5 | 21004.0 | 21950.2 | 18227.2 |
| 65°   | 6422.0 | 6542.6  | 7688.4  | 10339.2 | 14127.8 | 18002.1 | 21099.2 | 20816.4 | 23003.5 | 23715.1 | 19023.3 |
| 66°   | 5959.6 | 6077.5  | 7180.5  | 9829.9  | 13980.3 | 18538.2 | 22069.4 | 21436.9 | 23451.1 | 24008.6 | 18867.8 |
| 67.5° | 5114.0 | 5206.4  | 6194.1  | 8689.5  | 13196.4 | 18688.3 | 22885.6 | 21903.2 | 23498.0 | 23695.0 | 17979.3 |
| 70°   | 3231.1 | 3257.9  | 4025.8  | 5998.5  | 9989.4  | 16207.7 | 21643.3 | 20745.4 | 21560.2 | 21026.8 | 15072.6 |
| 72.5° | 1401.8 | 1392.4  | 1932.5  | 3051.5  | 5655.4  | 10875.2 | 17507.6 | 17117.6 | 16912.6 | 15695.7 | 10550.9 |
| 75°   | 780.0  | 790.7   | 1003.8  | 1416.5  | 2298.3  | 5341.8  | 11452.8 | 10959.7 | 9253.7  | 7896.1  | 4784.3  |
| 77.5° | 625.8  | 640.6   | 832.2   | 1005.1  | 1031.9  | 1862.8  | 5359.2  | 4360.8  | 2625.3  | 2106.7  | 1329.4  |
| 80°   | 494.5  | 521.3   | 726.4   | 782.6   | 695.5   | 767.9   | 1731.5  | 1384.4  | 1038.6  | 952.8   | 688.8   |
| 82.5° | 391.3  | 410.1   | 623.2   | 592.3   | 486.5   | 517.3   | 829.5   | 808.1   | 675.4   | 615.1   | 398.0   |
| 85°   | 281.4  | 316.3   | 511.9   | 446.3   | 319.0   | 348.4   | 550.8   | 528.0   | 387.3   | 316.3   | 175.6   |
| 87.5° | 115.3  | 150.1   | 361.8   | 296.2   | 178.2   | 162.2   | 274.7   | 258.6   | 183.6   | 134.0   | 87.1    |
| 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°    | 4041.9  | 4041.9 | 4041.9 | 4041.9 | 4041.9 | 4041.9 | 4041.9 | 4041.9 | 4041.9 | 4041.9 | 4041.9 |
| 2.5°  | 4037.8  | 4070.0 | 4111.5 | 4137.0 | 4150.4 | 4159.8 | 4174.5 | 4173.2 | 4177.2 | 4178.6 | 4183.9 |
| 5°    | 4064.6  | 4118.3 | 4178.6 | 4194.6 | 4194.6 | 4179.9 | 4165.2 | 4141.0 | 4131.7 | 4129.0 | 4131.7 |
| 7.5°  | 4134.3  | 4193.3 | 4245.6 | 4226.8 | 4186.6 | 4127.6 | 4051.2 | 3984.2 | 3948.1 | 3936.0 | 3933.3 |
| 10°   | 4222.8  | 4293.8 | 4315.3 | 4244.2 | 4126.3 | 3984.2 | 3832.8 | 3722.9 | 3659.9 | 3642.5 | 3637.1 |
| 12.5° | 4330.0  | 4397.0 | 4367.5 | 4217.4 | 3999.0 | 3769.8 | 3560.8 | 3385.2 | 3253.9 | 3212.3 | 3209.6 |
| 15°   | 4447.9  | 4500.2 | 4397.0 | 4134.3 | 3808.7 | 3471.0 | 3098.4 | 2795.5 | 2632.0 | 2579.8 | 2575.7 |
| 17.5° | 4557.8  | 4584.6 | 4379.6 | 3989.6 | 3528.6 | 2981.8 | 2487.3 | 2254.1 | 2197.8 | 2211.2 | 2213.9 |
| 20°   | 4651.6  | 4651.6 | 4320.6 | 3781.9 | 3087.7 | 2337.2 | 2025.0 | 2020.9 | 2061.1 | 2101.3 | 2109.4 |
| 22.5° | 4754.8  | 4693.2 | 4217.4 | 3488.4 | 2463.2 | 1912.4 | 1866.8 | 1904.3 | 1949.9 | 1994.1 | 2000.8 |
| 25°   | 4882.1  | 4726.7 | 4074.0 | 3043.5 | 1936.5 | 1736.8 | 1754.2 | 1785.1 | 1807.8 | 1836.0 | 1840.0 |
| 27.5° | 5024.2  | 4769.6 | 3885.1 | 2431.0 | 1680.5 | 1626.9 | 1640.3 | 1651.1 | 1648.4 | 1659.1 | 1661.8 |
| 30°   | 5194.4  | 4819.1 | 3626.4 | 1900.3 | 1574.7 | 1533.1 | 1509.0 | 1499.6 | 1499.6 | 1517.0 | 1523.7 |
| 32.5° | 5422.2  | 4892.9 | 3255.2 | 1628.3 | 1523.7 | 1466.1 | 1388.4 | 1353.5 | 1366.9 | 1425.9 | 1439.3 |
| 35°   | 5672.8  | 4971.9 | 2752.6 | 1535.8 | 1513.0 | 1435.3 | 1314.7 | 1250.4 | 1251.7 | 1306.6 | 1324.1 |
| 37.5° | 5946.2  | 5072.4 | 2201.9 | 1518.4 | 1537.1 | 1436.6 | 1275.8 | 1187.4 | 1151.2 | 1151.2 | 1157.9 |
| 40°   | 6296.0  | 5175.6 | 1782.4 | 1530.4 | 1588.1 | 1452.7 | 1255.7 | 1137.8 | 1035.9 | 1038.6 | 1044.0 |
| 42.5° | 6751.6  | 5264.1 | 1557.2 | 1555.9 | 1649.7 | 1474.2 | 1254.4 | 1072.1 | 983.7  | 1044.0 | 1098.9 |
| 45°   | 7258.2  | 5308.3 | 1458.1 | 1578.7 | 1699.3 | 1487.6 | 1232.9 | 1061.4 | 990.4  | 1169.9 | 1274.5 |
| 47.5° | 7841.2  | 5282.8 | 1403.1 | 1586.7 | 1711.4 | 1487.6 | 1208.8 | 1086.9 | 1037.3 | 1354.9 | 1476.8 |
| 50°   | 8480.4  | 5209.1 | 1349.5 | 1570.6 | 1707.3 | 1484.9 | 1231.6 | 1112.3 | 1054.7 | 1387.0 | 1471.5 |
| 52.5° | 9232.2  | 5147.5 | 1293.2 | 1535.8 | 1679.2 | 1470.1 | 1258.4 | 1101.6 | 999.7  | 1261.1 | 1320.0 |
| 55°   | 10089.9 | 5164.9 | 1230.2 | 1486.2 | 1635.0 | 1442.0 | 1249.0 | 1058.7 | 942.1  | 1111.0 | 1147.2 |
| 57.5° | 11186.1 | 5372.6 | 1155.2 | 1423.2 | 1574.7 | 1395.1 | 1215.5 | 1038.6 | 924.7  | 1007.8 | 1029.2 |
| 60°   | 12409.7 | 5734.5 | 1061.4 | 1360.2 | 1499.6 | 1320.0 | 1190.0 | 1048.0 | 932.7  | 999.7  | 1010.5 |
| 62.5° | 13307.6 | 5944.9 | 981.0  | 1267.8 | 1397.8 | 1236.9 | 1157.9 | 1060.1 | 954.2  | 1027.9 | 1025.2 |
| 65°   | 13551.5 | 5599.1 | 880.5  | 1132.4 | 1259.7 | 1149.8 | 1117.7 | 1073.5 | 963.6  | 1050.7 | 1038.6 |
| 66°   | 13209.8 | 5226.5 | 836.2  | 1069.4 | 1190.0 | 1107.0 | 1097.6 | 1072.1 | 959.5  | 1053.4 | 1033.2 |
| 67.5° | 12380.2 | 4462.7 | 759.9  | 977.0  | 1078.8 | 1042.6 | 1065.4 | 1060.1 | 948.8  | 1050.7 | 1022.5 |
| 70°   | 10096.6 | 3044.8 | 650.0  | 813.5  | 897.9  | 918.0  | 1003.8 | 1017.2 | 914.0  | 1003.8 | 942.1  |
| 72.5° | 7054.5  | 1854.8 | 574.9  | 631.2  | 726.4  | 782.6  | 919.3  | 958.2  | 867.1  | 876.5  | 817.5  |
| 75°   | 3409.3  | 985.0  | 521.3  | 489.2  | 564.2  | 654.0  | 817.5  | 877.8  | 793.4  | 733.1  | 711.6  |
| 77.5° | 1062.7  | 601.7  | 442.2  | 394.0  | 442.2  | 528.0  | 683.5  | 769.2  | 706.3  | 613.8  | 605.7  |
| 80°   | 570.9   | 442.2  | 340.4  | 316.3  | 349.8  | 414.1  | 537.4  | 641.9  | 607.1  | 550.8  | 491.8  |
| 82.5° | 376.6   | 286.8  | 251.9  | 245.2  | 266.7  | 316.3  | 399.4  | 532.0  | 532.0  | 471.7  | 343.1  |
| 85°   | 194.3   | 175.6  | 172.9  | 172.9  | 186.3  | 210.4  | 272.0  | 410.1  | 436.9  | 249.3  | 206.4  |
| 87.5° | 96.5    | 100.5  | 93.8   | 97.8   | 104.5  | 103.2  | 130.0  | 206.4  | 246.6  | 151.4  | 126.0  |
| 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)