

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: P301231

Luminaire Tested: **GAA-AF-06-LED-U-T3R-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P301231  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-06-LED-U-T3R-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III  
Roadway OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23113.4 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

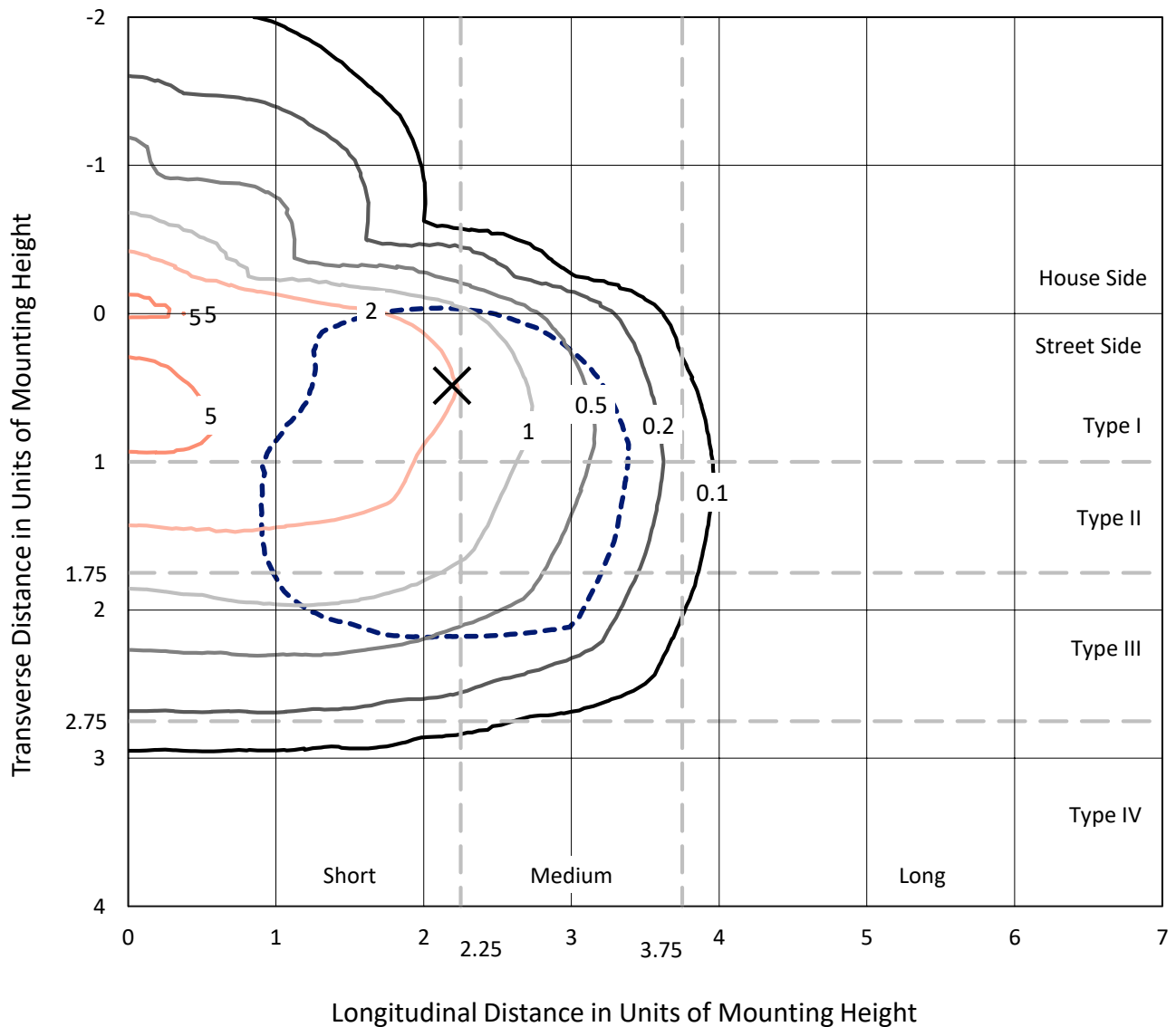
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

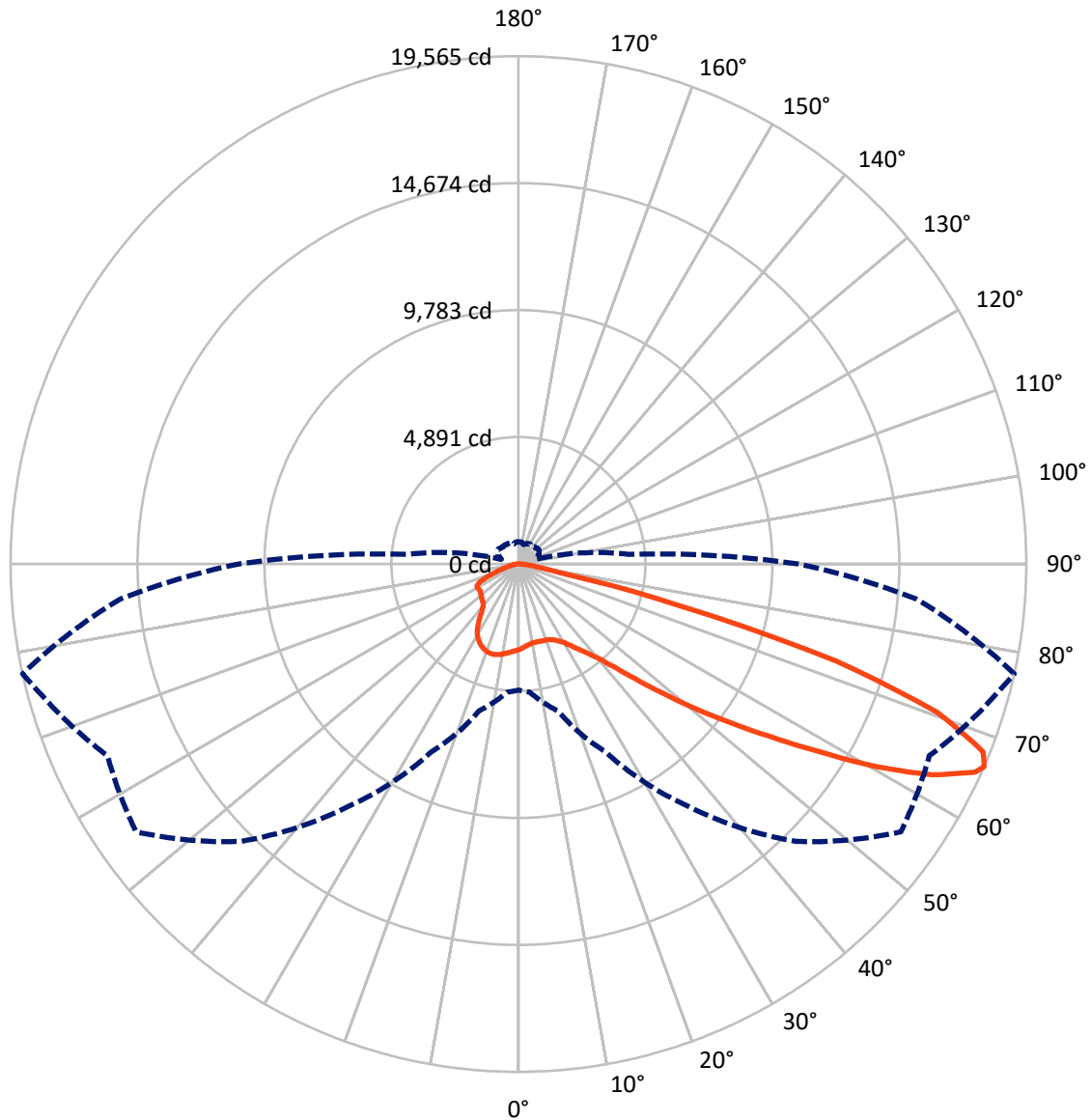
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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    | 3948.8   | 0.0    | 3948.8  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 19164.6  | 0.0    | 19164.6 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 23113.4  | 0.0    | 23113.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 294.3   | 1.3       |
| 10°-20°   | 830.2   | 3.6       |
| 20°-30°   | 1416.8  | 6.1       |
| 30°-40°   | 2268.1  | 9.8       |
| 40°-50°   | 3504.0  | 15.2      |
| 50°-60°   | 4969.9  | 21.5      |
| 60°-70°   | 6648.4  | 28.8      |
| 70°-80°   | 2887.3  | 12.5      |
| 80°-90°   | 294.4   | 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°    | 23113.4 | 100.0     |
| 0°-180°   | 23113.4 | 100.0     |

**Coefficient of Utilization**



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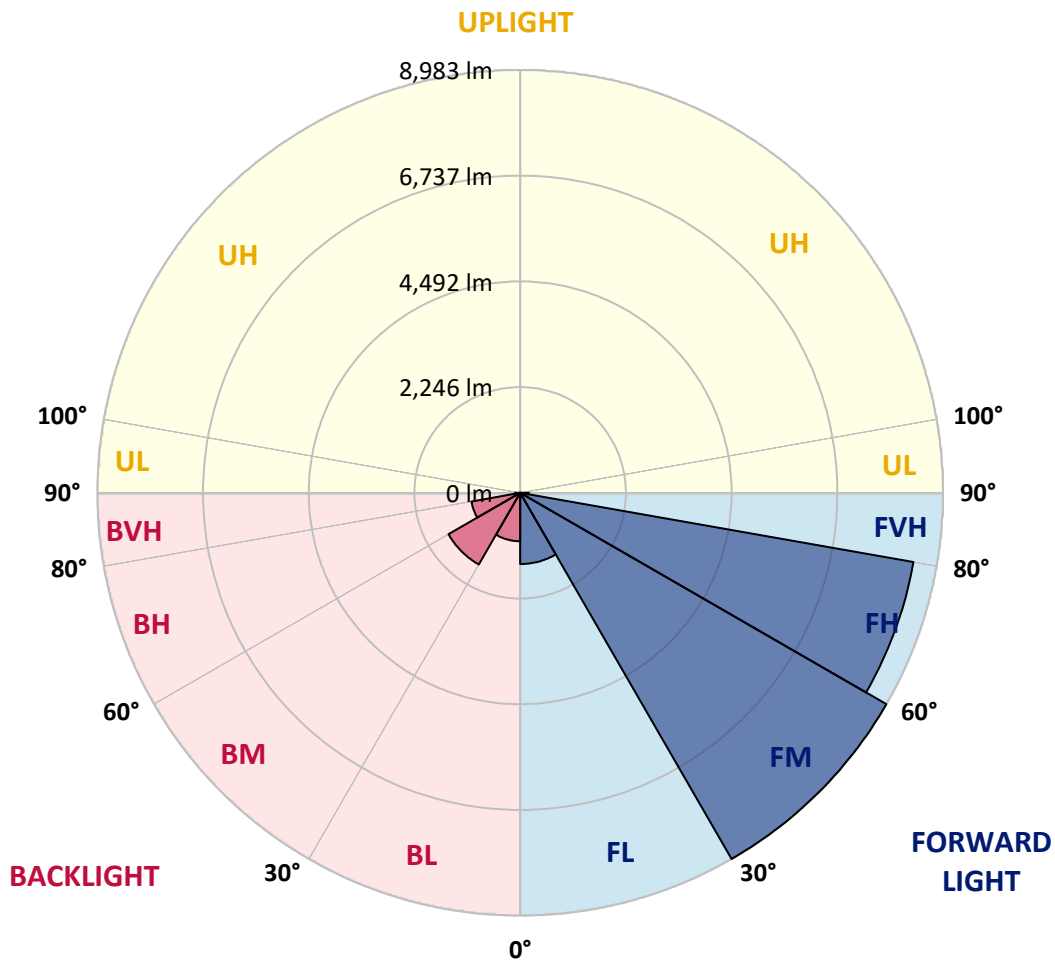
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1512.9 | 6.5       |                         |      |          |
| FM   | (30°-60°)   | 8983.1 | 38.9      |                         |      |          |
| FH   | (60°-80°)   | 8484.0 | 36.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 184.7  | 0.8       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1028.4 | 4.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1759.0 | 7.6       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1051.6 | 4.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 109.8  | 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°    | 3293.7 | 3293.7 | 3293.7 | 3293.7 | 3293.7  | 3293.7  | 3293.7  | 3293.7  | 3293.7  | 3293.7  | 3293.7  |
| 2.5°  | 2913.8 | 2933.3 | 2949.8 | 2965.1 | 2995.5  | 3045.7  | 3103.6  | 3150.6  | 3218.3  | 3231.6  | 3267.6  |
| 5°    | 2646.3 | 2646.3 | 2659.2 | 2682.3 | 2723.7  | 2799.1  | 2877.8  | 2982.6  | 3130.1  | 3164.8  | 3261.0  |
| 7.5°  | 2516.3 | 2517.3 | 2524.9 | 2544.5 | 2580.5  | 2649.3  | 2735.6  | 2859.2  | 3059.0  | 3116.8  | 3280.5  |
| 10°   | 2564.3 | 2553.4 | 2536.8 | 2527.3 | 2532.5  | 2572.9  | 2654.9  | 2792.4  | 3015.3  | 3089.4  | 3324.5  |
| 12.5° | 2832.8 | 2812.3 | 2755.4 | 2680.0 | 2607.9  | 2578.5  | 2626.5  | 2760.7  | 2996.8  | 3083.1  | 3382.4  |
| 15°   | 3271.9 | 3263.3 | 3157.2 | 3001.1 | 2826.5  | 2680.0  | 2647.3  | 2748.8  | 2998.8  | 3090.7  | 3451.1  |
| 17.5° | 3822.5 | 3810.2 | 3670.7 | 3443.5 | 3158.5  | 2873.5  | 2720.4  | 2758.7  | 3006.4  | 3103.6  | 3517.6  |
| 20°   | 4378.3 | 4340.9 | 4190.5 | 3919.7 | 3553.6  | 3136.3  | 2841.7  | 2783.9  | 3016.3  | 3117.8  | 3587.7  |
| 22.5° | 4793.3 | 4762.5 | 4627.3 | 4364.1 | 3942.5  | 3441.2  | 3004.4  | 2827.5  | 3048.1  | 3159.5  | 3673.7  |
| 25°   | 5158.0 | 5160.0 | 5025.7 | 4771.5 | 4335.7  | 3764.6  | 3214.0  | 2944.2  | 3128.7  | 3244.5  | 3791.7  |
| 27.5° | 5609.0 | 5582.9 | 5457.3 | 5205.0 | 4724.5  | 4091.0  | 3467.3  | 3104.9  | 3249.1  | 3365.8  | 3946.8  |
| 30°   | 6148.3 | 6129.8 | 5984.7 | 5698.6 | 5155.7  | 4441.5  | 3756.7  | 3291.4  | 3404.2  | 3525.2  | 4149.8  |
| 32.5° | 6782.9 | 6774.3 | 6623.5 | 6255.5 | 5653.7  | 4854.5  | 4096.6  | 3538.4  | 3635.6  | 3761.3  | 4441.5  |
| 35°   | 7527.9 | 7528.9 | 7351.0 | 6908.5 | 6198.6  | 5334.9  | 4481.8  | 3856.2  | 3917.4  | 4048.3  | 4789.0  |
| 37.5° | 7986.5 | 8042.1 | 7975.6 | 7524.6 | 6815.6  | 5872.2  | 4982.1  | 4277.8  | 4238.4  | 4370.7  | 5161.3  |
| 40°   | 8084.7 | 8152.5 | 8363.1 | 8134.0 | 7506.1  | 6464.1  | 5425.5  | 4682.9  | 4633.9  | 4795.3  | 5640.8  |
| 42.5° | 7947.2 | 8041.1 | 8486.8 | 8648.2 | 8238.8  | 7193.6  | 6021.7  | 5284.7  | 5222.5  | 5439.7  | 6237.0  |
| 45°   | 7865.2 | 7935.3 | 8450.8 | 8916.0 | 8874.3  | 8018.2  | 6780.9  | 6040.2  | 6017.4  | 6302.4  | 6925.1  |
| 47.5° | 7723.3 | 7786.8 | 8282.4 | 8978.2 | 9248.0  | 8773.8  | 7692.9  | 6964.4  | 7009.1  | 7382.7  | 7701.5  |
| 50°   | 7799.7 | 7825.8 | 8094.6 | 8819.8 | 9356.1  | 9327.7  | 8711.6  | 8034.5  | 8187.5  | 8653.8  | 8580.7  |
| 52.5° | 7788.8 | 7856.6 | 8072.8 | 8559.9 | 9370.3  | 9669.6  | 9715.2  | 9228.1  | 9550.5  | 10085.6 | 9555.8  |
| 55°   | 6297.1 | 6421.5 | 7816.2 | 8494.4 | 9420.3  | 10004.5 | 10608.7 | 10486.3 | 11086.8 | 11710.4 | 10656.6 |
| 57.5° | 6013.1 | 6091.8 | 6864.9 | 8632.0 | 9686.8  | 10644.7 | 11602.3 | 11871.1 | 12875.7 | 13599.8 | 11997.8 |
| 60°   | 5957.2 | 6054.4 | 6855.0 | 8800.3 | 10227.4 | 11687.6 | 13075.7 | 13547.6 | 15052.4 | 15845.4 | 13552.9 |
| 62.5° | 5783.6 | 5888.4 | 6790.5 | 8778.1 | 10995.2 | 13130.3 | 14961.8 | 15329.9 | 17116.4 | 17887.5 | 14853.7 |
| 65°   | 5233.4 | 5331.6 | 6265.4 | 8425.6 | 11513.0 | 14670.2 | 17193.8 | 16963.7 | 18745.9 | 19325.6 | 15502.1 |
| 66°   | 4856.4 | 4952.7 | 5851.4 | 8010.6 | 11392.7 | 15107.0 | 17984.8 | 17469.3 | 19110.7 | 19565.0 | 15375.5 |
| 67.5° | 4167.3 | 4242.7 | 5047.6 | 7081.1 | 10753.8 | 15229.3 | 18649.7 | 17849.2 | 19148.7 | 19309.4 | 14651.7 |
| 70°   | 2633.1 | 2654.9 | 3280.5 | 4888.2 | 8140.6  | 13207.7 | 17637.2 | 16905.8 | 17569.8 | 17135.0 | 12282.8 |
| 72.5° | 1142.4 | 1134.8 | 1574.9 | 2486.6 | 4608.8  | 8862.4  | 14267.1 | 13949.4 | 13782.4 | 12790.7 | 8598.2  |
| 75°   | 635.5  | 644.5  | 818.1  | 1154.3 | 1872.9  | 4353.2  | 9333.0  | 8931.2  | 7540.8  | 6434.7  | 3898.8  |
| 77.5° | 509.9  | 522.1  | 678.2  | 819.1  | 840.9   | 1518.1  | 4367.4  | 3553.6  | 2139.4  | 1716.8  | 1083.3  |
| 80°   | 403.1  | 424.9  | 591.9  | 637.8  | 566.8   | 625.6   | 1410.9  | 1128.2  | 846.5   | 776.4   | 561.5   |
| 82.5° | 318.8  | 334.3  | 507.9  | 482.8  | 396.5   | 421.6   | 675.9   | 658.7   | 550.6   | 501.3   | 324.4   |
| 85°   | 229.5  | 257.6  | 417.3  | 363.7  | 259.9   | 284.0   | 448.7   | 430.2   | 315.5   | 257.6   | 143.2   |
| 87.5° | 93.9   | 122.3  | 295.0  | 241.4  | 145.2   | 132.3   | 223.9   | 210.6   | 149.5   | 109.1   | 71.1    |
| 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°    | 3293.7  | 3293.7 | 3293.7 | 3293.7 | 3293.7 | 3293.7 | 3293.7 | 3293.7 | 3293.7 | 3293.7 | 3293.7 |
| 2.5°  | 3290.4  | 3316.6 | 3350.6 | 3371.4 | 3382.4 | 3390.0 | 3401.9 | 3400.9 | 3404.2 | 3405.2 | 3409.5 |
| 5°    | 3312.3  | 3355.9 | 3405.2 | 3418.4 | 3418.4 | 3406.2 | 3394.3 | 3374.4 | 3366.8 | 3364.8 | 3366.8 |
| 7.5°  | 3369.1  | 3417.1 | 3459.7 | 3444.5 | 3411.8 | 3363.5 | 3301.3 | 3246.8 | 3217.4 | 3207.4 | 3205.4 |
| 10°   | 3441.2  | 3499.1 | 3516.6 | 3458.7 | 3362.5 | 3246.8 | 3123.4 | 3033.8 | 2982.6 | 2968.4 | 2964.1 |
| 12.5° | 3528.5  | 3583.1 | 3559.3 | 3436.9 | 3258.7 | 3072.2 | 2901.6 | 2758.7 | 2651.6 | 2617.9 | 2615.5 |
| 15°   | 3624.7  | 3667.4 | 3583.1 | 3369.1 | 3103.6 | 2828.5 | 2524.9 | 2278.3 | 2145.0 | 2102.4 | 2099.0 |
| 17.5° | 3714.3  | 3736.2 | 3568.8 | 3251.1 | 2875.4 | 2430.0 | 2027.0 | 1836.8 | 1791.2 | 1802.1 | 1804.1 |
| 20°   | 3790.7  | 3790.7 | 3520.9 | 3081.8 | 2516.3 | 1904.6 | 1650.0 | 1647.0 | 1679.8 | 1712.5 | 1719.1 |
| 22.5° | 3874.7  | 3824.4 | 3436.9 | 2842.7 | 2007.1 | 1558.4 | 1521.4 | 1551.8 | 1588.8 | 1624.9 | 1630.5 |
| 25°   | 3978.5  | 3851.9 | 3319.9 | 2480.3 | 1577.9 | 1415.2 | 1429.5 | 1454.6 | 1473.1 | 1496.3 | 1499.6 |
| 27.5° | 4094.3  | 3886.6 | 3166.1 | 1981.0 | 1369.6 | 1326.0 | 1336.9 | 1345.5 | 1343.2 | 1352.1 | 1354.1 |
| 30°   | 4232.8  | 3927.3 | 2955.1 | 1548.5 | 1283.3 | 1249.2 | 1229.7 | 1222.1 | 1222.1 | 1236.3 | 1241.6 |
| 32.5° | 4418.7  | 3987.1 | 2652.6 | 1327.0 | 1241.6 | 1194.7 | 1131.5 | 1103.1 | 1114.0 | 1161.9 | 1172.9 |
| 35°   | 4623.0  | 4051.6 | 2243.2 | 1251.6 | 1233.0 | 1169.6 | 1071.3 | 1018.8 | 1020.1 | 1064.7 | 1079.0 |
| 37.5° | 4845.5  | 4133.6 | 1794.2 | 1237.3 | 1252.6 | 1170.9 | 1039.6 | 967.5  | 938.1  | 938.1  | 943.7  |
| 40°   | 5130.6  | 4217.6 | 1452.6 | 1247.3 | 1294.2 | 1183.8 | 1023.4 | 927.2  | 844.2  | 846.5  | 850.8  |
| 42.5° | 5501.9  | 4289.7 | 1269.1 | 1267.8 | 1344.5 | 1201.3 | 1022.1 | 873.6  | 801.5  | 850.8  | 895.4  |
| 45°   | 5914.9  | 4325.7 | 1188.1 | 1286.6 | 1384.8 | 1212.2 | 1004.9 | 865.0  | 807.1  | 953.3  | 1038.6 |
| 47.5° | 6389.7  | 4304.9 | 1143.4 | 1292.9 | 1394.7 | 1212.2 | 985.0  | 885.8  | 845.2  | 1104.1 | 1203.6 |
| 50°   | 6910.9  | 4245.1 | 1099.8 | 1280.0 | 1391.4 | 1209.9 | 1003.6 | 906.3  | 859.4  | 1130.2 | 1199.0 |
| 52.5° | 7523.6  | 4194.8 | 1053.8 | 1251.6 | 1368.3 | 1198.0 | 1025.4 | 897.8  | 814.8  | 1027.7 | 1075.6 |
| 55°   | 8222.3  | 4209.0 | 1002.6 | 1211.2 | 1332.2 | 1175.2 | 1017.8 | 862.7  | 767.8  | 905.4  | 934.8  |
| 57.5° | 9115.7  | 4378.3 | 941.4  | 1160.0 | 1283.3 | 1136.8 | 990.7  | 846.5  | 753.6  | 821.4  | 838.9  |
| 60°   | 10112.7 | 4672.9 | 865.0  | 1108.4 | 1222.1 | 1075.6 | 969.8  | 854.1  | 760.2  | 814.8  | 823.4  |
| 62.5° | 10844.4 | 4844.5 | 799.5  | 1033.0 | 1139.1 | 1007.9 | 943.7  | 863.7  | 777.7  | 837.6  | 835.6  |
| 65°   | 11043.2 | 4562.8 | 717.5  | 922.9  | 1026.7 | 937.1  | 910.6  | 874.6  | 785.3  | 856.1  | 846.5  |
| 66°   | 10764.7 | 4259.3 | 681.5  | 871.6  | 969.8  | 902.0  | 894.4  | 873.6  | 782.0  | 858.4  | 841.9  |
| 67.5° | 10088.9 | 3636.6 | 619.3  | 796.2  | 879.2  | 849.8  | 868.3  | 863.7  | 773.1  | 856.1  | 833.3  |
| 70°   | 8227.9  | 2481.3 | 529.7  | 663.0  | 731.8  | 748.0  | 818.1  | 829.0  | 744.7  | 818.1  | 767.8  |
| 72.5° | 5748.9  | 1511.5 | 468.5  | 514.5  | 591.9  | 637.8  | 749.3  | 780.7  | 706.6  | 714.2  | 666.3  |
| 75°   | 2778.2  | 802.8  | 424.9  | 398.8  | 459.6  | 533.0  | 666.3  | 715.2  | 646.4  | 597.5  | 580.0  |
| 77.5° | 866.0   | 490.4  | 360.4  | 321.1  | 360.4  | 430.2  | 556.8  | 626.9  | 575.7  | 500.3  | 493.7  |
| 80°   | 465.2   | 360.4  | 277.4  | 257.6  | 285.0  | 337.6  | 437.8  | 523.1  | 494.7  | 448.7  | 400.8  |
| 82.5° | 306.9   | 233.8  | 205.3  | 199.7  | 217.2  | 257.6  | 325.4  | 433.5  | 433.5  | 384.6  | 279.7  |
| 85°   | 158.4   | 143.2  | 140.9  | 140.9  | 151.8  | 171.6  | 221.5  | 334.3  | 356.1  | 203.0  | 168.3  |
| 87.5° | 78.7    | 82.0   | 76.4   | 79.7   | 85.3   | 84.0   | 105.8  | 168.3  | 201.0  | 123.3  | 102.5  |
| 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)