

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: P192996

Luminaire Tested: **GAN-AF-08-LED-U-SL4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192996  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-08-LED-U-SL4-7030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43841.4 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

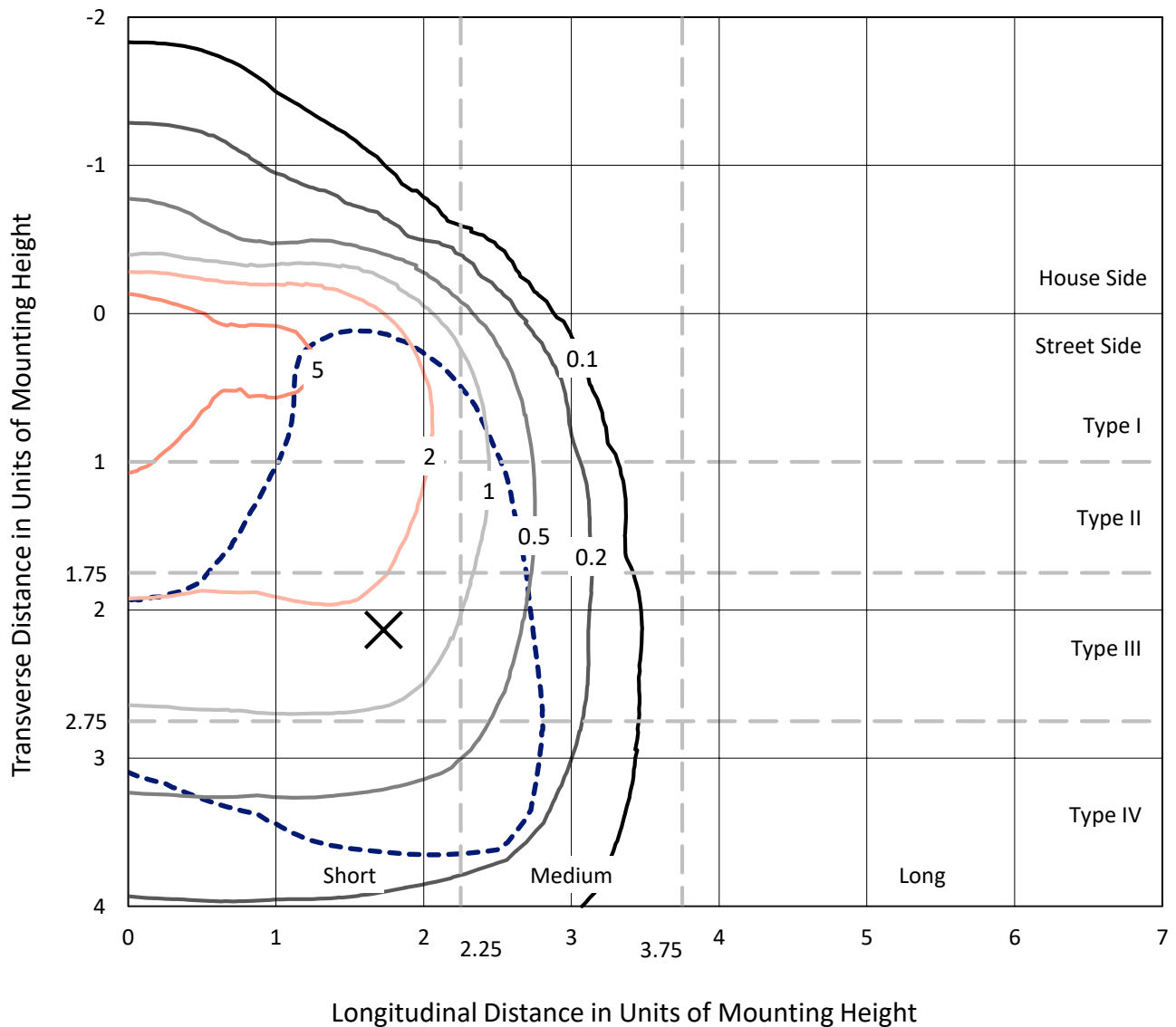
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

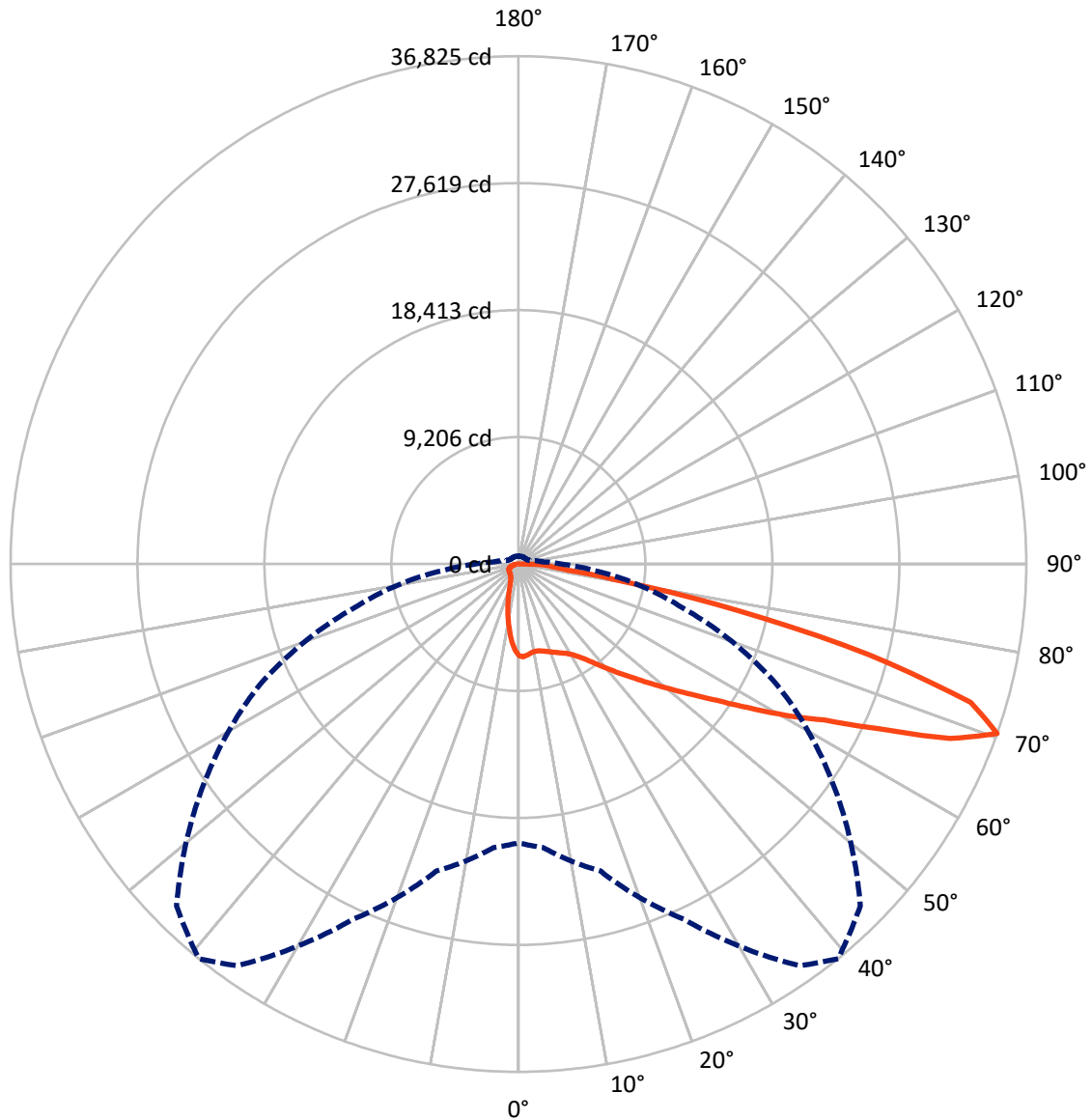
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4986.2   | 0.0    | 4986.2  |
|                    | % Fixture | 11.4     | 0.0    | 11.4    |
| <b>Street Side</b> | Lumens    | 38855.1  | 0.0    | 38855.1 |
|                    | % Fixture | 88.6     | 0.0    | 88.6    |
| <b>Total</b>       | Lumens    | 43841.4  | 0.0    | 43841.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 571.2   | 1.3       |
| 10°-20°   | 1427.8  | 3.3       |
| 20°-30°   | 2223.1  | 5.1       |
| 30°-40°   | 3463.2  | 7.9       |
| 40°-50°   | 5814.0  | 13.3      |
| 50°-60°   | 9236.1  | 21.1      |
| 60°-70°   | 12319.9 | 28.1      |
| 70°-80°   | 7439.7  | 17.0      |
| 80°-90°   | 1346.5  | 3.1       |
| 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°    | 43841.4 | 100.0     |
| 0°-180°   | 43841.4 | 100.0     |

**Coefficient of Utilization**



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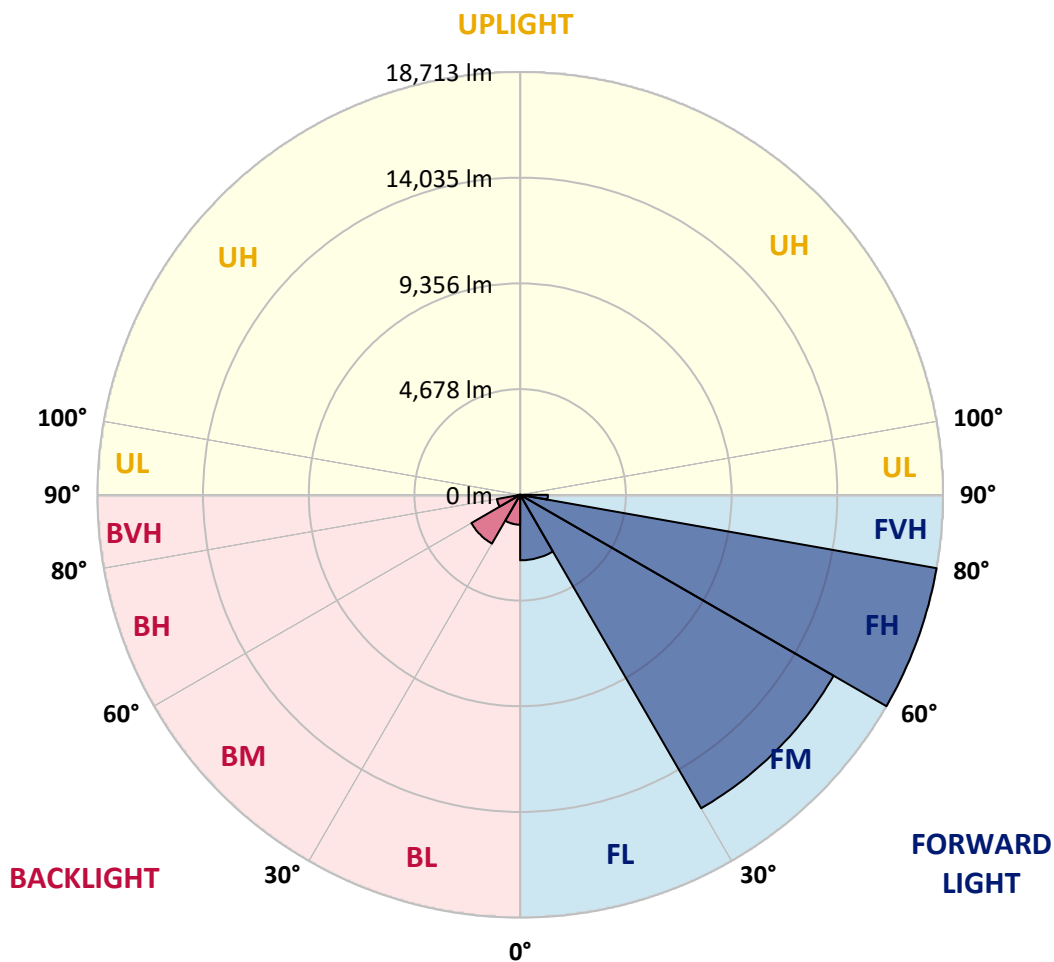
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2899.3  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 16017.9 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 18712.8 | 42.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 1225.1  | 2.8       |                         |      | G5      |
| BL   | (0°-30°)    | 1322.8  | 3.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2495.3  | 5.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1046.8  | 2.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 121.4   | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 39°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6655.7  | 6655.7  | 6655.7  | 6655.7  | 6655.7  | 6655.7  | 6655.7  | 6655.7  | 6655.7  | 6655.7  | 6655.7  |
| 2.5°  | 6785.1  | 6782.9  | 6765.0  | 6751.6  | 6740.5  | 6736.1  | 6745.0  | 6711.6  | 6682.6  | 6646.9  | 6609.0  |
| 5°    | 6733.8  | 6731.6  | 6702.6  | 6675.8  | 6649.1  | 6640.2  | 6637.9  | 6577.7  | 6542.1  | 6488.6  | 6417.4  |
| 7.5°  | 6678.0  | 6666.9  | 6629.1  | 6584.5  | 6537.6  | 6515.3  | 6493.1  | 6415.0  | 6374.9  | 6321.4  | 6238.9  |
| 10°   | 6620.1  | 6606.8  | 6571.1  | 6526.5  | 6482.0  | 6448.5  | 6410.6  | 6334.9  | 6292.5  | 6252.4  | 6156.5  |
| 12.5° | 6559.9  | 6548.8  | 6539.9  | 6519.8  | 6488.6  | 6459.6  | 6430.7  | 6366.0  | 6321.4  | 6274.6  | 6163.2  |
| 15°   | 6551.0  | 6546.6  | 6566.6  | 6580.0  | 6562.2  | 6544.3  | 6513.2  | 6457.4  | 6410.6  | 6363.8  | 6218.9  |
| 17.5° | 6622.3  | 6620.1  | 6671.4  | 6707.1  | 6698.1  | 6666.9  | 6624.6  | 6562.2  | 6524.3  | 6484.2  | 6303.6  |
| 20°   | 6778.5  | 6789.6  | 6851.9  | 6898.7  | 6854.2  | 6809.6  | 6740.5  | 6653.6  | 6633.4  | 6615.6  | 6390.6  |
| 22.5° | 7072.6  | 7083.8  | 7128.4  | 7146.2  | 7030.3  | 6965.6  | 6869.7  | 6758.3  | 6745.0  | 6758.3  | 6495.4  |
| 25°   | 7531.8  | 7520.7  | 7514.0  | 7447.1  | 7235.3  | 7135.0  | 7012.5  | 6896.6  | 6903.2  | 6963.4  | 6642.4  |
| 27.5° | 8140.4  | 8080.2  | 7986.6  | 7786.0  | 7449.3  | 7337.9  | 7188.5  | 7081.5  | 7123.9  | 7239.8  | 6863.1  |
| 30°   | 8771.2  | 8704.2  | 8488.1  | 8160.3  | 7730.2  | 7607.6  | 7440.4  | 7320.1  | 7431.5  | 7614.3  | 7157.3  |
| 32.5° | 9355.1  | 9346.2  | 9029.7  | 8608.4  | 8118.1  | 8011.0  | 7843.8  | 7707.9  | 7888.4  | 8167.0  | 7598.7  |
| 35°   | 9992.7  | 10012.6 | 9633.7  | 9127.7  | 8641.9  | 8530.4  | 8410.0  | 8307.5  | 8548.2  | 8931.6  | 8238.3  |
| 37.5° | 10674.7 | 10714.8 | 10266.8 | 9696.1  | 9239.2  | 9192.4  | 9121.1  | 9076.5  | 9448.7  | 9979.2  | 9132.2  |
| 40°   | 11586.4 | 11546.2 | 10924.3 | 10338.1 | 9972.5  | 9970.4  | 9948.0  | 10001.5 | 10621.2 | 11347.8 | 10280.2 |
| 42.5° | 12562.6 | 12444.5 | 11622.0 | 11026.9 | 10777.3 | 10853.0 | 10897.6 | 11116.0 | 12032.1 | 13010.7 | 11680.0 |
| 45°   | 13614.8 | 13349.6 | 12346.4 | 11755.8 | 11671.1 | 11831.5 | 11983.1 | 12457.8 | 13692.8 | 14903.1 | 13213.5 |
| 47.5° | 14455.1 | 14198.8 | 13095.4 | 12520.3 | 12705.3 | 12948.4 | 13240.2 | 13991.4 | 15551.8 | 16857.9 | 14727.0 |
| 50°   | 15117.1 | 14950.0 | 13851.1 | 13411.9 | 13844.4 | 14218.8 | 14695.8 | 15727.9 | 17486.5 | 18761.6 | 16129.1 |
| 52.5° | 15759.0 | 15634.2 | 14613.3 | 14325.7 | 15181.7 | 15698.8 | 16347.5 | 17591.3 | 19470.3 | 20633.8 | 17308.2 |
| 55°   | 16338.6 | 16249.5 | 15433.6 | 15464.8 | 16755.5 | 17428.6 | 18244.3 | 19713.3 | 21632.5 | 22303.4 | 18306.8 |
| 57.5° | 16991.7 | 16878.1 | 16369.8 | 16893.5 | 18777.1 | 19651.0 | 20711.8 | 22098.3 | 23660.8 | 23787.9 | 19066.9 |
| 60°   | 17649.2 | 17551.2 | 17408.5 | 18543.1 | 21344.9 | 22263.3 | 23268.5 | 24409.8 | 25718.2 | 24940.3 | 19022.2 |
| 62.5° | 18219.8 | 18231.0 | 18482.9 | 20275.0 | 23859.3 | 24922.5 | 26148.5 | 27276.2 | 27579.4 | 25140.9 | 17615.8 |
| 65°   | 19187.2 | 19363.4 | 20114.5 | 22726.9 | 27399.0 | 28821.0 | 30325.6 | 30145.0 | 28094.4 | 23266.3 | 14600.0 |
| 67.5° | 20337.4 | 20647.3 | 22169.7 | 25994.6 | 31872.4 | 33760.4 | 34342.3 | 30793.6 | 26032.5 | 18913.1 | 10407.2 |
| 70°   | 20221.4 | 20647.3 | 23056.8 | 28430.9 | 35559.3 | 36825.3 | 35059.9 | 27869.2 | 20671.8 | 12355.4 | 5528.0  |
| 72.5° | 17956.9 | 18565.4 | 21249.1 | 27314.2 | 34398.0 | 34286.5 | 30437.0 | 20776.5 | 12281.9 | 4961.8  | 2159.9  |
| 75°   | 13686.1 | 14301.3 | 16610.5 | 21578.9 | 27187.1 | 26250.9 | 21596.8 | 11477.1 | 4660.9  | 1970.5  | 1361.9  |
| 77.5° | 7872.7  | 8349.8  | 10133.0 | 13233.6 | 17248.0 | 16287.3 | 12021.0 | 5104.4  | 2269.1  | 1373.1  | 1063.2  |
| 80°   | 4395.6  | 4660.9  | 5744.1  | 6713.8  | 8452.4  | 7748.0  | 5378.7  | 3171.9  | 1694.1  | 996.3   | 820.3   |
| 82.5° | 3475.0  | 3711.3  | 4645.2  | 4235.1  | 3860.6  | 3562.0  | 3089.5  | 2824.2  | 1352.9  | 628.6   | 490.3   |
| 85°   | 3035.9  | 3261.1  | 3931.9  | 3334.6  | 2636.9  | 2418.5  | 2509.9  | 2779.5  | 1052.0  | 378.9   | 419.0   |
| 87.5° | 2813.0  | 3113.9  | 3504.0  | 2570.0  | 2052.9  | 1818.8  | 2316.0  | 3047.0  | 338.8   | 236.3   | 169.4   |
| 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°    | 6655.7  | 6655.7  | 6655.7 | 6655.7 | 6655.7 | 6655.7 | 6655.7 | 6655.7 | 6655.7 | 6655.7 | 6655.7 |
| 2.5°  | 6575.6  | 6539.9  | 6482.0 | 6430.7 | 6350.4 | 6308.1 | 6261.3 | 6227.8 | 6201.1 | 6178.8 | 6214.4 |
| 5°    | 6372.8  | 6305.9  | 6183.2 | 6051.8 | 5895.7 | 5773.2 | 5670.5 | 5574.7 | 5507.9 | 5463.3 | 5494.5 |
| 7.5°  | 6181.1  | 6071.7  | 5880.2 | 5641.6 | 5374.1 | 5146.7 | 4959.5 | 4794.7 | 4680.8 | 4607.4 | 4636.3 |
| 10°   | 6071.7  | 5935.8  | 5639.4 | 5264.8 | 4870.3 | 4515.9 | 4221.8 | 3967.6 | 3791.6 | 3691.3 | 3706.8 |
| 12.5° | 6045.1  | 5869.0  | 5458.8 | 4943.9 | 4404.5 | 3911.9 | 3497.3 | 3145.1 | 2897.7 | 2768.4 | 2772.9 |
| 15°   | 6065.1  | 5840.0  | 5289.5 | 4636.3 | 3954.2 | 3332.4 | 2815.3 | 2387.4 | 2099.8 | 1952.6 | 1950.4 |
| 17.5° | 6098.6  | 5817.7  | 5111.1 | 4304.2 | 3497.3 | 2775.0 | 2197.8 | 1778.7 | 1524.6 | 1406.5 | 1397.5 |
| 20°   | 6134.3  | 5782.0  | 4910.4 | 3945.4 | 3022.5 | 2258.0 | 1720.9 | 1393.2 | 1232.7 | 1168.0 | 1163.5 |
| 22.5° | 6185.5  | 5750.9  | 4703.2 | 3566.4 | 2556.6 | 1839.0 | 1415.5 | 1194.8 | 1110.1 | 1076.6 | 1072.2 |
| 25°   | 6267.9  | 5735.2  | 4482.5 | 3171.9 | 2137.6 | 1538.1 | 1232.7 | 1096.6 | 1047.6 | 1025.3 | 1023.1 |
| 27.5° | 6406.2  | 5757.5  | 4275.2 | 2788.6 | 1796.5 | 1335.1 | 1130.1 | 1047.6 | 1012.0 | 991.8  | 989.7  |
| 30°   | 6584.5  | 5826.6  | 4056.8 | 2425.1 | 1531.4 | 1196.9 | 1067.7 | 1014.2 | 985.2  | 965.2  | 965.2  |
| 32.5° | 6880.9  | 5942.5  | 3827.3 | 2110.9 | 1341.8 | 1101.2 | 1020.9 | 985.2  | 960.7  | 945.1  | 942.9  |
| 35°   | 7317.8  | 6160.9  | 3613.2 | 1850.1 | 1205.9 | 1032.1 | 980.7  | 954.1  | 936.2  | 927.3  | 927.3  |
| 37.5° | 7953.1  | 6506.5  | 3423.7 | 1662.8 | 1123.4 | 985.2  | 942.9  | 922.8  | 911.7  | 911.7  | 911.7  |
| 40°   | 8806.8  | 6983.5  | 3269.9 | 1538.1 | 1076.6 | 951.7  | 913.9  | 898.3  | 891.5  | 893.8  | 893.8  |
| 42.5° | 9861.0  | 7603.2  | 3167.4 | 1451.1 | 1054.4 | 931.8  | 893.8  | 880.4  | 873.7  | 871.6  | 873.7  |
| 45°   | 11062.5 | 8307.5  | 3156.3 | 1386.4 | 1032.1 | 918.4  | 880.4  | 867.1  | 853.8  | 844.8  | 844.8  |
| 47.5° | 12230.5 | 9022.9  | 3247.6 | 1364.1 | 1007.5 | 902.7  | 869.2  | 855.9  | 835.9  | 815.8  | 815.8  |
| 50°   | 13262.6 | 9631.5  | 3370.2 | 1373.1 | 998.6  | 880.4  | 851.4  | 844.8  | 813.6  | 791.2  | 789.1  |
| 52.5° | 14082.9 | 10099.6 | 3470.5 | 1399.8 | 1007.5 | 864.9  | 829.2  | 831.5  | 798.0  | 773.4  | 771.3  |
| 55°   | 14740.3 | 10407.2 | 3443.9 | 1426.6 | 1027.6 | 855.9  | 809.2  | 813.6  | 786.8  | 762.3  | 762.3  |
| 57.5° | 15027.9 | 10293.6 | 3147.3 | 1404.3 | 1043.2 | 858.1  | 793.6  | 811.4  | 789.1  | 766.8  | 766.8  |
| 60°   | 14410.5 | 9283.8  | 2592.2 | 1306.2 | 1023.1 | 851.4  | 786.8  | 820.3  | 818.1  | 795.7  | 793.6  |
| 62.5° | 12542.6 | 7476.1  | 2010.6 | 1161.3 | 954.1  | 818.1  | 768.9  | 818.1  | 842.6  | 835.9  | 833.6  |
| 65°   | 9667.1  | 5325.1  | 1535.7 | 1005.3 | 860.4  | 762.3  | 722.2  | 766.8  | 800.3  | 809.2  | 806.9  |
| 67.5° | 6274.6  | 3263.2  | 1183.6 | 858.1  | 755.6  | 697.7  | 662.0  | 682.1  | 688.8  | 688.8  | 684.3  |
| 70°   | 3084.9  | 1756.5  | 942.9  | 722.2  | 648.7  | 628.6  | 608.5  | 597.3  | 586.1  | 577.3  | 577.3  |
| 72.5° | 1522.4  | 1148.0  | 775.7  | 610.8  | 559.5  | 550.5  | 546.1  | 532.7  | 523.8  | 512.7  | 508.2  |
| 75°   | 1125.7  | 933.9   | 659.8  | 514.9  | 481.5  | 472.5  | 481.5  | 470.4  | 468.0  | 459.2  | 454.7  |
| 77.5° | 925.0   | 795.7   | 568.3  | 441.3  | 412.4  | 396.7  | 410.2  | 412.4  | 414.6  | 401.2  | 396.7  |
| 80°   | 751.1   | 673.1   | 474.7  | 365.6  | 338.8  | 327.7  | 336.6  | 354.4  | 358.9  | 338.8  | 329.9  |
| 82.5° | 541.6   | 550.5   | 383.4  | 285.2  | 263.0  | 254.1  | 271.9  | 294.2  | 298.8  | 269.8  | 263.0  |
| 85°   | 454.7   | 459.2   | 294.2  | 202.7  | 180.5  | 167.1  | 196.1  | 218.4  | 234.1  | 205.1  | 198.5  |
| 87.5° | 189.4   | 269.8   | 169.4  | 113.6  | 100.3  | 87.0   | 104.8  | 116.0  | 140.4  | 129.3  | 127.1  |
| 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)