

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: P194108

Luminaire Tested: **GAN-AF-10-LED-U-T4W-8030-800-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194108  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-10-LED-U-T4W-8030-800-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38572 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 419  
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

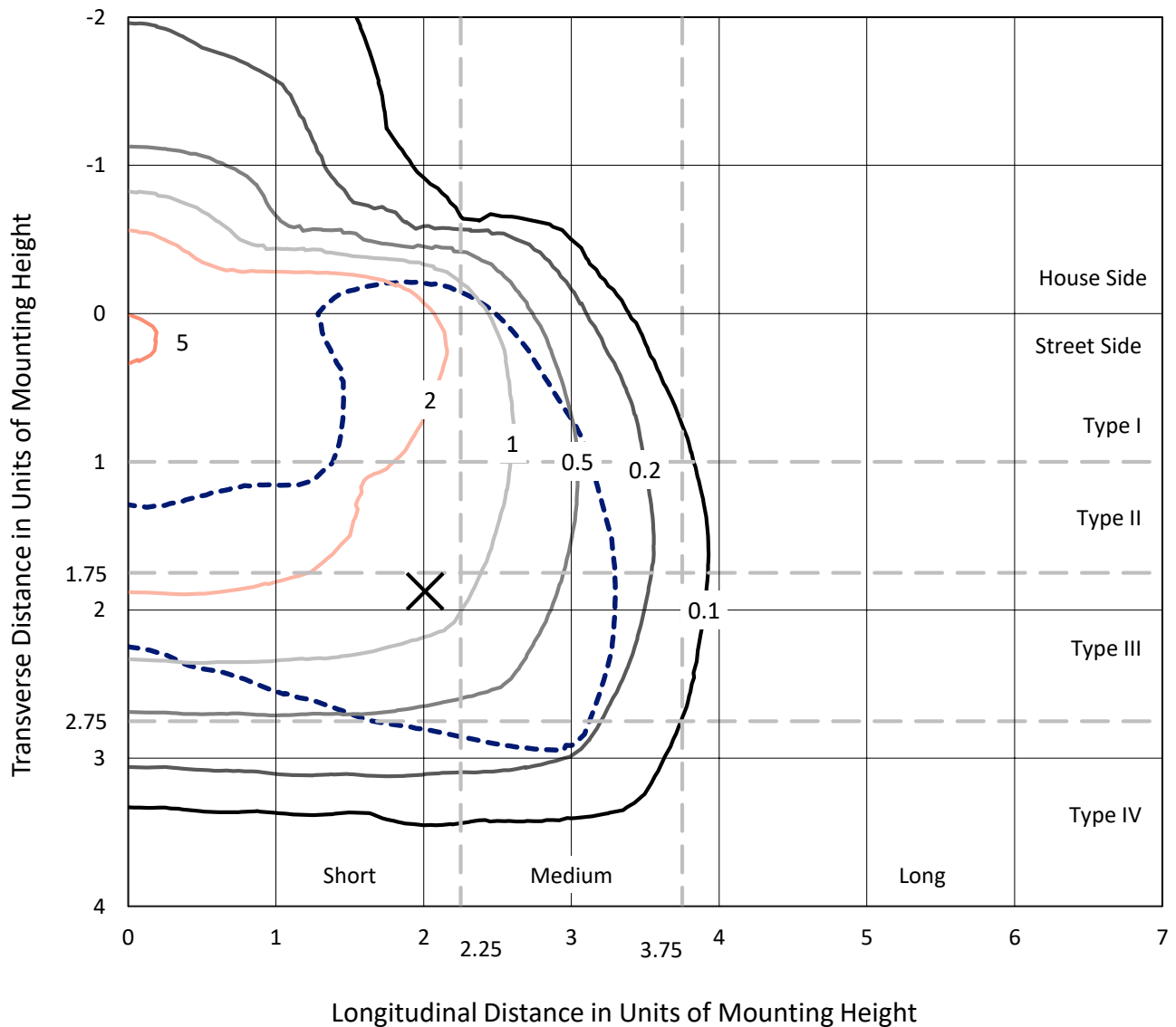


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

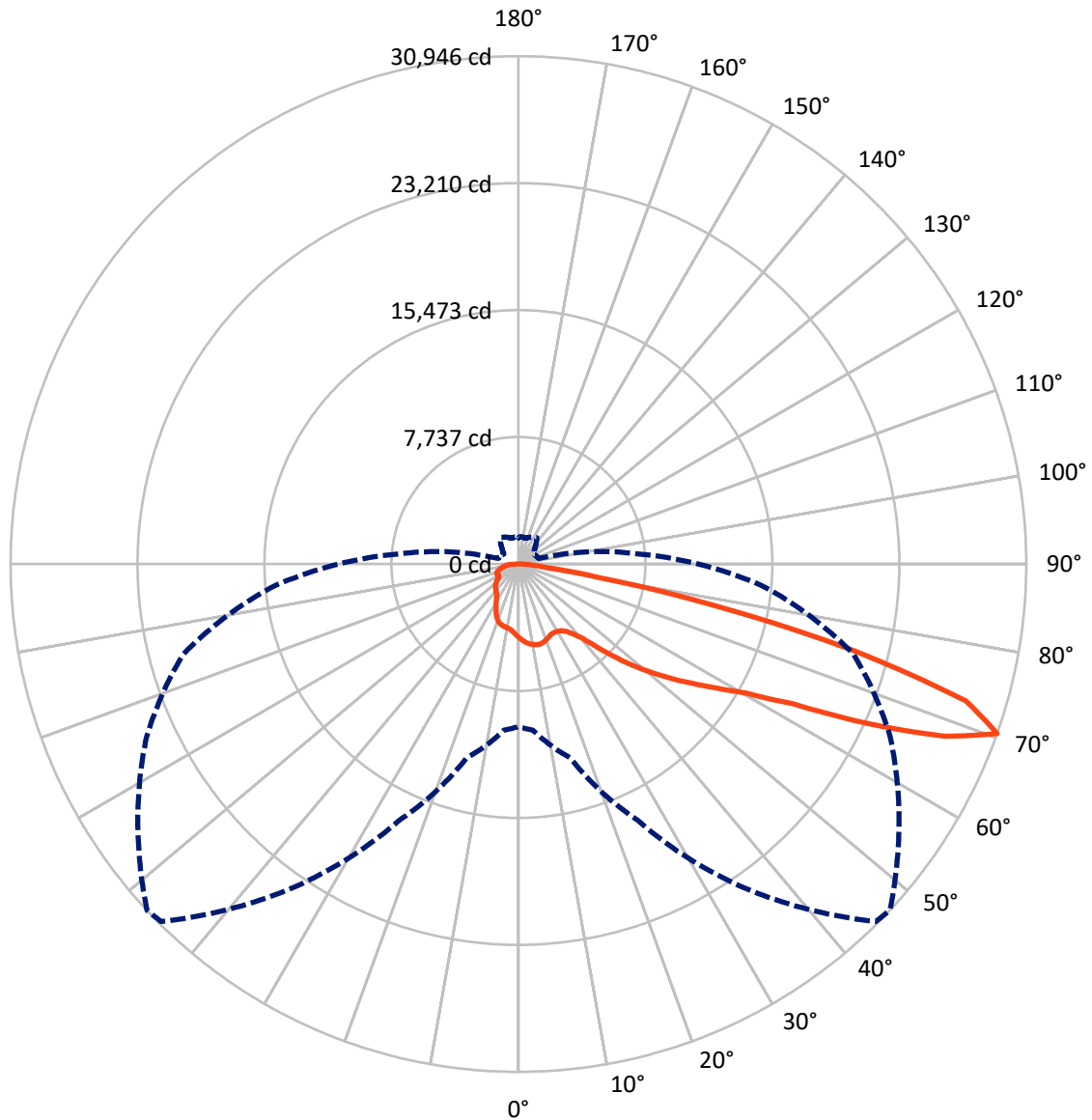


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8046.9   | 0.0    | 8046.9  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 30525.1  | 0.0    | 30525.1 |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 38572.0  | 0.0    | 38572.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 428.8   | 1.1       |
| 10°-20°   | 1258.1  | 3.3       |
| 20°-30°   | 1857.9  | 4.8       |
| 30°-40°   | 2700.4  | 7.0       |
| 40°-50°   | 4859.7  | 12.6      |
| 50°-60°   | 8418.9  | 21.8      |
| 60°-70°   | 12016.2 | 31.2      |
| 70°-80°   | 6168.5  | 16.0      |
| 80°-90°   | 863.6   | 2.2       |
| 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°    | 38572.0 | 100.0     |
| 0°-180°   | 38572.0 | 100.0     |

**Coefficient of Utilization**



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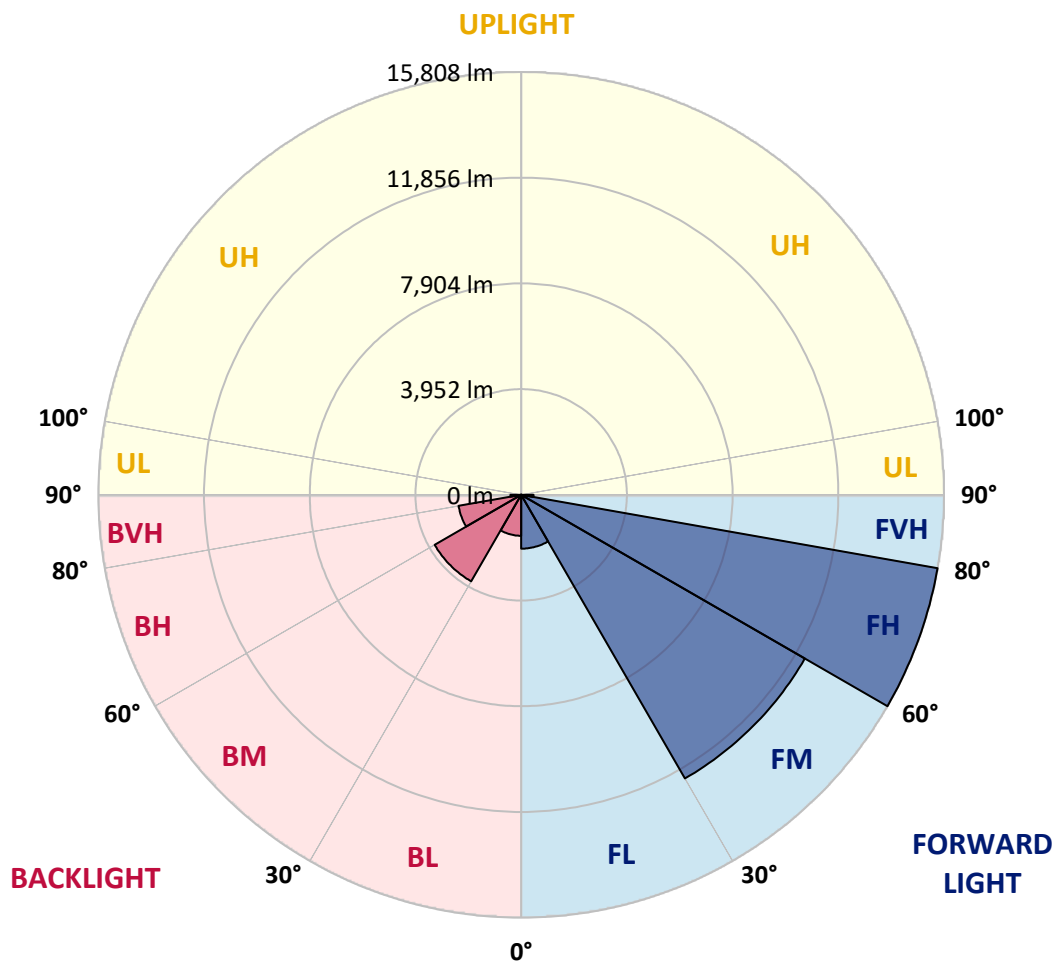
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2012.6  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 12243.8 | 31.7      |                         |      |         |
| FH   | (60°-80°)   | 15807.9 | 41.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 460.8   | 1.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1532.2  | 4.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3735.1  | 9.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2376.8  | 6.2       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 402.8   | 1.0       |                         |      | G3/500  |
| 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°     | 45°     | 47°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4475.6  | 4475.6  | 4475.6  | 4475.6  | 4475.6  | 4475.6  | 4475.6  | 4475.6  | 4475.6  | 4475.6  | 4475.6  |
| 2.5°  | 4738.3  | 4728.9  | 4725.1  | 4717.6  | 4708.2  | 4661.3  | 4651.9  | 4618.2  | 4571.3  | 4522.5  | 4471.8  |
| 5°    | 5049.8  | 5047.9  | 5027.3  | 4989.7  | 4929.7  | 4826.5  | 4802.1  | 4719.5  | 4608.8  | 4501.8  | 4394.9  |
| 7.5°  | 5323.7  | 5306.9  | 5267.5  | 5192.4  | 5087.3  | 4946.6  | 4912.8  | 4798.3  | 4646.3  | 4499.9  | 4355.5  |
| 10°   | 5524.5  | 5515.2  | 5428.8  | 5325.6  | 5188.6  | 5032.9  | 4993.5  | 4865.9  | 4698.9  | 4513.1  | 4332.9  |
| 12.5° | 5639.0  | 5620.2  | 5520.8  | 5396.9  | 5233.7  | 5081.7  | 5042.3  | 4912.8  | 4725.1  | 4513.1  | 4301.0  |
| 15°   | 5631.5  | 5618.4  | 5518.9  | 5383.8  | 5218.7  | 5085.4  | 5049.8  | 4920.3  | 4719.5  | 4494.3  | 4259.8  |
| 17.5° | 5481.4  | 5487.0  | 5402.6  | 5269.3  | 5134.2  | 5032.9  | 5001.0  | 4880.9  | 4682.0  | 4456.8  | 4211.0  |
| 20°   | 5218.7  | 5244.9  | 5188.6  | 5070.4  | 4995.4  | 4925.9  | 4905.3  | 4803.9  | 4623.8  | 4402.4  | 4158.4  |
| 22.5° | 4955.9  | 4980.3  | 4957.8  | 4858.4  | 4847.1  | 4805.8  | 4794.6  | 4721.4  | 4573.1  | 4368.6  | 4126.5  |
| 25°   | 4762.7  | 4785.2  | 4781.4  | 4695.1  | 4728.9  | 4727.0  | 4717.6  | 4682.0  | 4561.9  | 4368.6  | 4132.1  |
| 27.5° | 4710.1  | 4717.6  | 4710.1  | 4631.3  | 4678.2  | 4715.8  | 4708.2  | 4702.6  | 4595.7  | 4423.0  | 4203.5  |
| 30°   | 4890.3  | 4879.0  | 4820.8  | 4661.3  | 4704.5  | 4757.0  | 4749.5  | 4753.3  | 4697.0  | 4565.6  | 4363.0  |
| 32.5° | 5609.0  | 5558.3  | 5374.4  | 4925.9  | 4811.5  | 4839.6  | 4843.4  | 4905.3  | 4914.7  | 4785.2  | 4610.7  |
| 35°   | 6684.2  | 6627.9  | 6389.6  | 5635.3  | 5143.6  | 5046.0  | 5046.0  | 5139.8  | 5196.1  | 5100.4  | 4995.4  |
| 37.5° | 7823.3  | 7761.4  | 7633.8  | 6618.6  | 5841.7  | 5404.4  | 5395.1  | 5460.7  | 5541.4  | 5563.9  | 5590.2  |
| 40°   | 9118.1  | 9052.4  | 9088.1  | 7722.0  | 6815.6  | 6025.6  | 5892.3  | 5845.4  | 6063.1  | 6207.6  | 6417.8  |
| 42.5° | 10534.9 | 10504.9 | 10518.0 | 8951.1  | 7924.6  | 6954.5  | 6764.9  | 6522.9  | 6785.6  | 7042.7  | 7483.6  |
| 45°   | 11846.6 | 11872.9 | 11859.7 | 10266.6 | 9159.4  | 8087.9  | 7887.1  | 7418.0  | 7675.1  | 8116.0  | 8834.8  |
| 47.5° | 12995.1 | 12886.2 | 13055.1 | 11704.0 | 10542.4 | 9356.4  | 9108.7  | 8480.1  | 8740.9  | 9285.1  | 10501.1 |
| 50°   | 14389.3 | 14374.3 | 14126.6 | 13621.8 | 12214.4 | 10630.6 | 10306.0 | 9577.9  | 9983.2  | 10739.5 | 12601.0 |
| 52.5° | 15854.9 | 15582.8 | 15355.7 | 15113.7 | 13987.7 | 11936.7 | 11538.9 | 10671.9 | 11443.2 | 12394.6 | 15160.6 |
| 55°   | 16155.2 | 16033.2 | 16314.7 | 16721.9 | 15697.3 | 13293.4 | 12829.9 | 12043.6 | 13087.0 | 14286.1 | 18112.4 |
| 57.5° | 16796.9 | 16795.1 | 17376.8 | 18103.0 | 17457.5 | 14732.7 | 14265.5 | 13700.6 | 14935.4 | 16453.5 | 21246.2 |
| 60°   | 17230.4 | 17352.4 | 18433.3 | 19842.6 | 19185.8 | 16395.3 | 15965.6 | 15612.8 | 17037.1 | 18876.1 | 24166.1 |
| 62.5° | 17457.5 | 17622.6 | 19097.6 | 20548.1 | 21629.0 | 19163.2 | 18733.5 | 18225.0 | 19818.2 | 21533.3 | 25873.8 |
| 65°   | 16513.6 | 16838.2 | 18994.4 | 21158.0 | 23768.3 | 23650.1 | 23456.8 | 22563.5 | 23295.4 | 23633.2 | 25256.4 |
| 67.5° | 13901.4 | 14233.6 | 16744.4 | 20589.4 | 25295.8 | 27977.4 | 28018.6 | 26493.0 | 25434.7 | 23813.3 | 21234.9 |
| 70°   | 9904.4  | 10165.2 | 12242.6 | 17262.3 | 24132.3 | 30805.3 | 30946.1 | 28303.9 | 25008.7 | 21118.6 | 14835.9 |
| 72.5° | 4702.6  | 4862.1  | 6828.7  | 11234.9 | 19150.1 | 28225.1 | 28497.2 | 25992.0 | 21265.0 | 15635.3 | 8093.5  |
| 75°   | 1728.3  | 1777.1  | 2308.1  | 4779.6  | 11107.3 | 20814.6 | 21135.5 | 18632.2 | 14096.6 | 7783.9  | 3083.2  |
| 77.5° | 1035.9  | 1067.8  | 1294.8  | 2017.3  | 4368.6  | 11897.3 | 12372.0 | 10133.3 | 6160.7  | 2897.4  | 1516.2  |
| 80°   | 724.3   | 746.9   | 928.9   | 1255.4  | 2064.2  | 4533.7  | 4955.9  | 4135.9  | 2454.5  | 1833.4  | 1103.4  |
| 82.5° | 489.8   | 501.0   | 653.0   | 848.2   | 1371.8  | 1619.5  | 1747.1  | 1839.0  | 1655.1  | 1364.2  | 700.0   |
| 85°   | 320.9   | 332.1   | 442.9   | 559.2   | 872.6   | 836.9   | 855.7   | 1082.8  | 1208.5  | 927.0   | 388.4   |
| 87.5° | 183.9   | 191.4   | 266.5   | 298.4   | 427.9   | 354.7   | 358.4   | 570.5   | 773.1   | 624.9   | 236.4   |
| 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°    | 4475.6  | 4475.6  | 4475.6 | 4475.6 | 4475.6 | 4475.6 | 4475.6 | 4475.6 | 4475.6 | 4475.6 | 4475.6 |
| 2.5°  | 4458.7  | 4434.3  | 4379.8 | 4346.1 | 4314.2 | 4306.7 | 4293.5 | 4291.7 | 4289.8 | 4289.8 | 4284.1 |
| 5°    | 4359.2  | 4317.9  | 4233.5 | 4186.6 | 4147.2 | 4143.4 | 4141.5 | 4150.9 | 4154.7 | 4158.4 | 4152.8 |
| 7.5°  | 4295.4  | 4239.1  | 4134.0 | 4066.5 | 4019.6 | 4008.3 | 4027.1 | 4070.2 | 4098.4 | 4109.6 | 4104.0 |
| 10°   | 4256.0  | 4186.6  | 4064.6 | 3991.4 | 3952.0 | 3946.4 | 3970.8 | 4021.4 | 4079.6 | 4102.1 | 4100.2 |
| 12.5° | 4211.0  | 4132.1  | 4002.7 | 3925.7 | 3903.2 | 3914.5 | 3946.4 | 3993.3 | 4053.3 | 4089.0 | 4090.9 |
| 15°   | 4165.9  | 4074.0  | 3940.7 | 3873.2 | 3863.8 | 3878.8 | 3908.8 | 3944.5 | 3991.4 | 4027.1 | 4030.8 |
| 17.5° | 4111.5  | 4015.8  | 3882.6 | 3813.1 | 3805.6 | 3813.1 | 3815.0 | 3833.8 | 3863.8 | 3897.6 | 3907.0 |
| 20°   | 4053.3  | 3955.8  | 3816.9 | 3747.5 | 3713.7 | 3683.7 | 3649.9 | 3653.6 | 3663.0 | 3696.8 | 3704.3 |
| 22.5° | 4012.0  | 3914.5  | 3766.2 | 3670.5 | 3580.4 | 3490.4 | 3422.8 | 3413.4 | 3417.2 | 3445.3 | 3454.7 |
| 25°   | 4015.8  | 3912.6  | 3753.1 | 3587.9 | 3390.9 | 3246.4 | 3156.3 | 3141.3 | 3139.5 | 3160.1 | 3173.2 |
| 27.5° | 4089.0  | 3985.8  | 3801.9 | 3503.5 | 3184.5 | 2970.6 | 2874.9 | 2863.6 | 2848.6 | 2854.2 | 2869.2 |
| 30°   | 4252.2  | 4156.5  | 3920.1 | 3417.2 | 2961.2 | 2700.3 | 2600.9 | 2589.6 | 2569.0 | 2559.6 | 2570.9 |
| 32.5° | 4518.7  | 4439.9  | 4092.7 | 3334.6 | 2737.9 | 2469.5 | 2368.2 | 2343.8 | 2330.7 | 2319.4 | 2328.8 |
| 35°   | 4961.6  | 4927.8  | 4323.6 | 3244.5 | 2540.8 | 2291.3 | 2199.3 | 2161.8 | 2143.0 | 2163.7 | 2178.7 |
| 37.5° | 5655.9  | 5674.7  | 4625.7 | 3103.8 | 2388.8 | 2173.0 | 2096.1 | 2052.9 | 2024.8 | 2041.7 | 2058.6 |
| 40°   | 6639.2  | 6652.3  | 4959.7 | 2904.9 | 2257.5 | 2103.6 | 2021.0 | 1981.6 | 1942.2 | 1912.2 | 1910.3 |
| 42.5° | 7930.3  | 7797.0  | 5288.1 | 2689.1 | 2105.5 | 2060.4 | 1968.5 | 1919.7 | 1859.7 | 1777.1 | 1760.2 |
| 45°   | 9461.5  | 8994.3  | 5537.7 | 2441.4 | 1934.7 | 2007.9 | 1910.3 | 1842.8 | 1748.9 | 1658.9 | 1649.5 |
| 47.5° | 11225.5 | 10279.7 | 5659.7 | 2184.3 | 1775.2 | 1931.0 | 1839.0 | 1732.0 | 1613.8 | 1568.8 | 1563.2 |
| 50°   | 13379.7 | 11805.3 | 5717.8 | 1934.7 | 1636.3 | 1829.6 | 1735.8 | 1610.1 | 1510.6 | 1501.2 | 1495.6 |
| 52.5° | 15832.4 | 13640.6 | 5736.6 | 1730.2 | 1521.9 | 1698.3 | 1651.4 | 1529.4 | 1450.6 | 1458.1 | 1458.1 |
| 55°   | 18399.5 | 15535.9 | 5481.4 | 1581.9 | 1416.8 | 1563.2 | 1595.1 | 1497.5 | 1431.8 | 1461.8 | 1473.1 |
| 57.5° | 20756.4 | 17215.4 | 4678.2 | 1467.5 | 1317.3 | 1459.9 | 1574.4 | 1527.5 | 1482.5 | 1604.4 | 1611.9 |
| 60°   | 22565.4 | 18208.1 | 3494.1 | 1364.2 | 1244.1 | 1424.3 | 1628.8 | 1642.0 | 1653.2 | 1944.1 | 1983.5 |
| 62.5° | 22944.5 | 17877.8 | 2402.0 | 1283.6 | 1210.4 | 1454.3 | 1728.3 | 1730.2 | 1717.0 | 1919.7 | 1944.1 |
| 65°   | 21204.9 | 15789.2 | 1747.1 | 1238.5 | 1182.2 | 1508.7 | 1812.7 | 1773.3 | 1687.0 | 1840.9 | 1795.9 |
| 67.5° | 16840.1 | 11895.4 | 1454.3 | 1204.7 | 1140.9 | 1505.0 | 1902.8 | 1812.7 | 1670.1 | 1803.4 | 1730.2 |
| 70°   | 10930.9 | 7192.8  | 1294.8 | 1176.6 | 1092.1 | 1433.7 | 1955.4 | 1809.0 | 1621.3 | 1677.6 | 1591.3 |
| 72.5° | 5333.1  | 3216.4  | 1187.9 | 1135.3 | 1041.5 | 1334.2 | 1953.5 | 1775.2 | 1570.7 | 1566.9 | 1520.0 |
| 75°   | 2086.7  | 1473.1  | 1090.3 | 1073.4 | 955.2  | 1221.6 | 1900.9 | 1726.4 | 1510.6 | 1450.6 | 1433.7 |
| 77.5° | 1221.6  | 1050.9  | 966.4  | 981.4  | 852.0  | 1109.0 | 1824.0 | 1642.0 | 1428.0 | 1356.7 | 1338.0 |
| 80°   | 889.5   | 786.3   | 823.8  | 848.2  | 728.1  | 996.4  | 1720.8 | 1538.8 | 1336.1 | 1371.8 | 1345.5 |
| 82.5° | 570.5   | 506.7   | 668.0  | 692.4  | 606.1  | 882.0  | 1608.2 | 1429.9 | 1206.6 | 1095.9 | 1069.6 |
| 85°   | 290.9   | 320.9   | 497.3  | 527.3  | 467.3  | 724.3  | 1471.2 | 1285.4 | 1060.2 | 912.0  | 927.0  |
| 87.5° | 163.3   | 219.6   | 317.1  | 354.7  | 330.3  | 557.3  | 1193.5 | 1060.2 | 865.1  | 703.7  | 619.3  |
| 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)