

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: P268879

Luminaire Tested: **GAN-AF-09-LED-U-T4W-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268879  
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-09-LED-U-T4W-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 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: 37093.1 lumens  
Efficiency: N/A  
Efficacy: 99.2 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): 374  
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

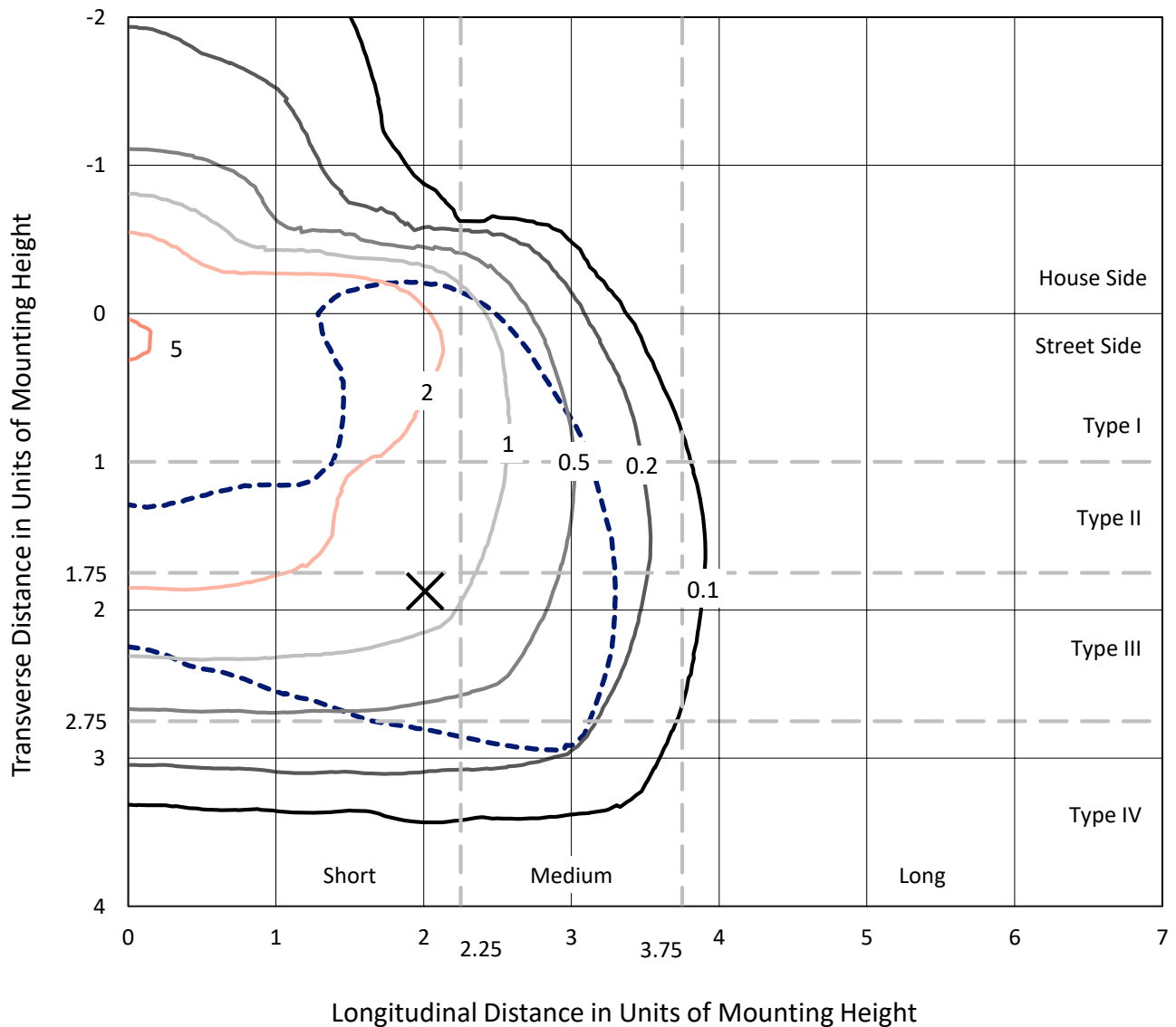


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

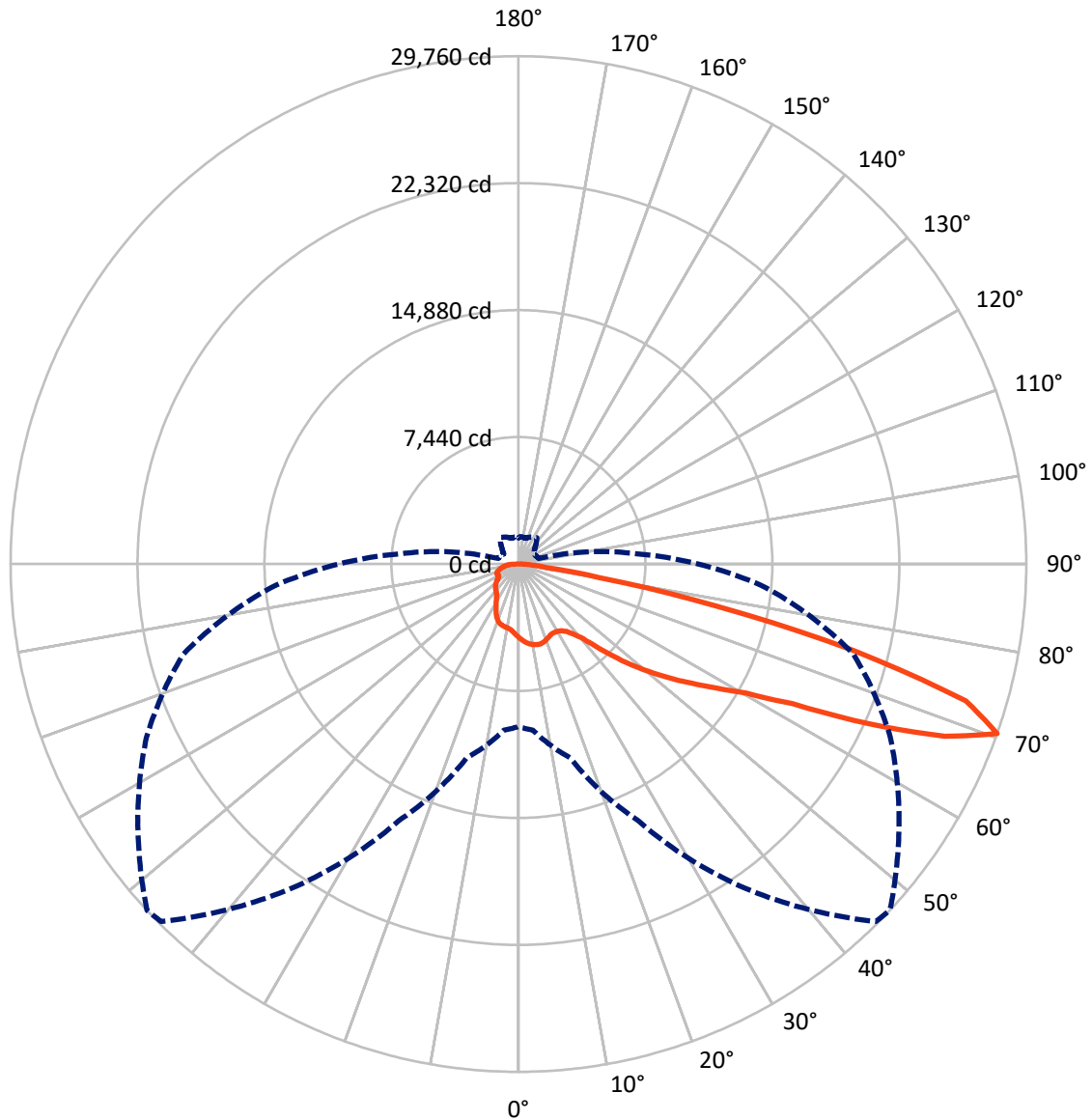


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - Semi-Cutoff

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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    | 7738.3   | 0.0    | 7738.3  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 29354.8  | 0.0    | 29354.8 |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 37093.1  | 0.0    | 37093.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 412.4   | 1.1       |
| 10°-20°   | 1209.9  | 3.3       |
| 20°-30°   | 1786.6  | 4.8       |
| 30°-40°   | 2596.8  | 7.0       |
| 40°-50°   | 4673.4  | 12.6      |
| 50°-60°   | 8096.1  | 21.8      |
| 60°-70°   | 11555.5 | 31.2      |
| 70°-80°   | 5932.0  | 16.0      |
| 80°-90°   | 830.5   | 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°    | 37093.1 | 100.0     |
| 0°-180°   | 37093.1 | 100.0     |

**Coefficient of Utilization**



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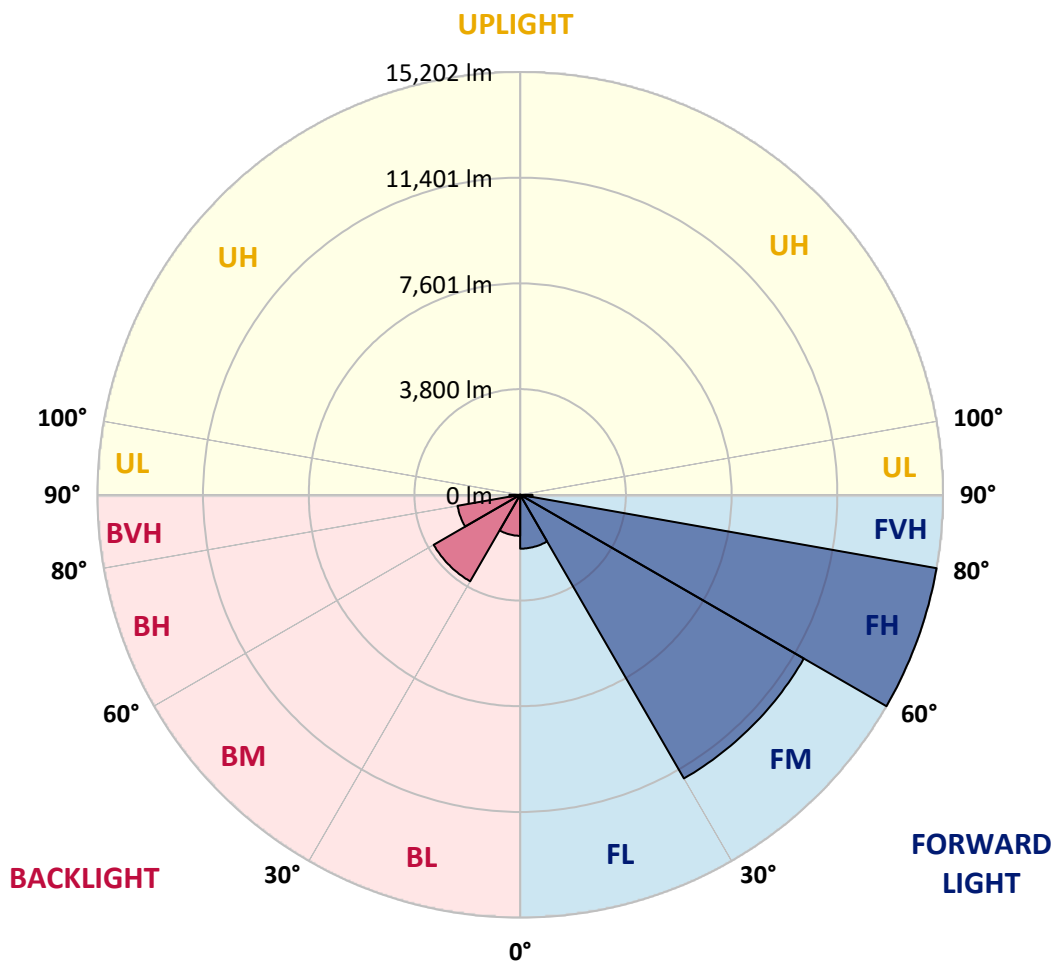
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1935.4  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 11774.4 | 31.7      |                         |      |         |
| FH   | (60°-80°)   | 15201.8 | 41.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 443.2   | 1.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1473.4  | 4.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3591.9  | 9.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2285.7  | 6.2       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 387.3   | 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°    | 4304.0  | 4304.0  | 4304.0  | 4304.0  | 4304.0  | 4304.0  | 4304.0  | 4304.0  | 4304.0  | 4304.0  | 4304.0  |
| 2.5°  | 4556.7  | 4547.6  | 4543.9  | 4536.7  | 4527.7  | 4482.6  | 4473.6  | 4441.1  | 4395.9  | 4349.1  | 4300.4  |
| 5°    | 4856.1  | 4854.4  | 4834.5  | 4798.4  | 4740.6  | 4641.5  | 4617.9  | 4538.5  | 4432.1  | 4329.2  | 4226.3  |
| 7.5°  | 5119.6  | 5103.5  | 5065.5  | 4993.3  | 4892.3  | 4757.0  | 4724.5  | 4614.4  | 4468.2  | 4327.4  | 4188.4  |
| 10°   | 5312.8  | 5303.8  | 5220.7  | 5121.4  | 4989.6  | 4839.9  | 4802.0  | 4679.4  | 4518.7  | 4340.0  | 4166.8  |
| 12.5° | 5422.8  | 5404.7  | 5309.2  | 5190.0  | 5033.1  | 4886.8  | 4849.0  | 4724.5  | 4543.9  | 4340.0  | 4136.2  |
| 15°   | 5415.6  | 5402.9  | 5307.4  | 5177.4  | 5018.7  | 4890.5  | 4856.1  | 4731.6  | 4538.5  | 4322.0  | 4096.5  |
| 17.5° | 5271.3  | 5276.6  | 5195.4  | 5067.2  | 4937.4  | 4839.9  | 4809.3  | 4693.7  | 4502.5  | 4286.0  | 4049.5  |
| 20°   | 5018.7  | 5043.9  | 4989.6  | 4876.0  | 4803.9  | 4737.0  | 4717.2  | 4619.8  | 4446.5  | 4233.6  | 3999.0  |
| 22.5° | 4766.0  | 4789.5  | 4767.8  | 4672.1  | 4661.2  | 4621.6  | 4610.7  | 4540.4  | 4397.8  | 4201.2  | 3968.4  |
| 25°   | 4580.1  | 4601.7  | 4598.2  | 4515.2  | 4547.6  | 4545.8  | 4536.7  | 4502.5  | 4387.0  | 4201.2  | 3973.7  |
| 27.5° | 4529.6  | 4536.7  | 4529.6  | 4453.7  | 4498.8  | 4535.0  | 4527.7  | 4522.2  | 4419.4  | 4253.5  | 4042.4  |
| 30°   | 4702.7  | 4691.9  | 4636.1  | 4482.6  | 4524.1  | 4574.7  | 4567.4  | 4571.0  | 4516.9  | 4390.6  | 4195.7  |
| 32.5° | 5394.0  | 5345.3  | 5168.4  | 4737.0  | 4627.0  | 4654.1  | 4657.6  | 4717.2  | 4726.3  | 4601.7  | 4433.9  |
| 35°   | 6427.9  | 6373.8  | 6144.6  | 5419.1  | 4946.3  | 4852.6  | 4852.6  | 4942.7  | 4996.9  | 4904.8  | 4803.9  |
| 37.5° | 7523.3  | 7463.7  | 7341.0  | 6364.9  | 5617.7  | 5197.2  | 5188.3  | 5251.4  | 5328.9  | 5350.7  | 5375.8  |
| 40°   | 8768.5  | 8705.4  | 8739.7  | 7425.8  | 6554.4  | 5794.5  | 5666.4  | 5621.4  | 5830.7  | 5969.5  | 6171.7  |
| 42.5° | 10130.9 | 10102.1 | 10114.7 | 8607.9  | 7620.9  | 6687.8  | 6505.5  | 6272.8  | 6525.4  | 6772.6  | 7196.7  |
| 45°   | 11392.5 | 11417.6 | 11405.1 | 9872.9  | 8808.2  | 7777.9  | 7584.7  | 7133.6  | 7380.8  | 7804.8  | 8496.0  |
| 47.5° | 12496.9 | 12392.2 | 12554.5 | 11255.3 | 10138.2 | 8997.8  | 8759.6  | 8155.0  | 8405.8  | 8929.2  | 10098.4 |
| 50°   | 13837.6 | 13823.2 | 13585.0 | 13099.5 | 11746.1 | 10223.0 | 9910.8  | 9210.6  | 9600.5  | 10327.8 | 12117.9 |
| 52.5° | 15247.0 | 14985.3 | 14767.0 | 14534.1 | 13451.4 | 11479.0 | 11096.5 | 10262.7 | 11004.3 | 11919.3 | 14579.3 |
| 55°   | 15535.7 | 15418.5 | 15689.2 | 16080.7 | 15095.5 | 12783.7 | 12338.0 | 11581.8 | 12585.3 | 13738.4 | 17418.0 |
| 57.5° | 16153.0 | 16151.2 | 16710.5 | 17409.0 | 16788.2 | 14167.9 | 13718.6 | 13175.4 | 14362.8 | 15822.7 | 20431.6 |
| 60°   | 16569.7 | 16687.0 | 17726.6 | 19081.7 | 18450.2 | 15766.7 | 15353.6 | 15014.2 | 16383.8 | 18152.4 | 23239.5 |
| 62.5° | 16788.2 | 16947.0 | 18365.4 | 19760.2 | 20799.7 | 18428.5 | 18015.2 | 17526.2 | 19058.4 | 20707.6 | 24881.8 |
| 65°   | 15880.4 | 16192.6 | 18266.0 | 20346.8 | 22857.1 | 22743.3 | 22557.3 | 21698.4 | 22402.2 | 22727.1 | 24288.1 |
| 67.5° | 13368.4 | 13687.8 | 16102.4 | 19800.0 | 24325.9 | 26904.6 | 26944.4 | 25477.3 | 24459.5 | 22900.3 | 20420.8 |
| 70°   | 9524.6  | 9775.4  | 11773.1 | 16600.5 | 23207.2 | 29624.2 | 29759.6 | 27218.7 | 24049.9 | 20308.9 | 14267.2 |
| 72.5° | 4522.2  | 4675.7  | 6566.9  | 10804.2 | 18416.0 | 27142.8 | 27404.6 | 24995.3 | 20449.6 | 15035.9 | 7783.3  |
| 75°   | 1662.0  | 1708.9  | 2219.6  | 4596.3  | 10681.3 | 20016.6 | 20325.1 | 17917.9 | 13556.1 | 7485.4  | 2964.9  |
| 77.5° | 996.1   | 1026.9  | 1245.2  | 1939.9  | 4201.2  | 11441.2 | 11897.7 | 9744.9  | 5924.5  | 2786.4  | 1458.0  |
| 80°   | 696.5   | 718.3   | 893.3   | 1207.3  | 1985.1  | 4360.0  | 4766.0  | 3977.3  | 2360.3  | 1763.2  | 1061.1  |
| 82.5° | 471.0   | 481.9   | 627.9   | 815.8   | 1319.2  | 1557.3  | 1680.1  | 1768.6  | 1591.6  | 1312.0  | 673.1   |
| 85°   | 308.6   | 319.3   | 425.8   | 537.7   | 839.1   | 804.8   | 822.8   | 1041.2  | 1162.1  | 891.5   | 373.5   |
| 87.5° | 176.8   | 184.1   | 256.2   | 286.9   | 411.5   | 341.0   | 344.7   | 548.5   | 743.4   | 601.0   | 227.5   |
| 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°    | 4304.0  | 4304.0  | 4304.0 | 4304.0 | 4304.0 | 4304.0 | 4304.0 | 4304.0 | 4304.0 | 4304.0 | 4304.0 |
| 2.5°  | 4287.7  | 4264.3  | 4212.0 | 4179.5 | 4148.7 | 4141.5 | 4128.9 | 4127.2 | 4125.2 | 4125.2 | 4119.8 |
| 5°    | 4192.1  | 4152.3  | 4071.2 | 4026.1 | 3988.1 | 3984.5 | 3982.7 | 3991.8 | 3995.4 | 3999.0 | 3993.5 |
| 7.5°  | 4130.8  | 4076.6  | 3975.4 | 3910.5 | 3865.4 | 3854.5 | 3872.7 | 3914.2 | 3941.3 | 3952.1 | 3946.7 |
| 10°   | 4092.8  | 4026.1  | 3908.7 | 3838.4 | 3800.5 | 3795.1 | 3818.5 | 3867.3 | 3923.2 | 3944.8 | 3943.0 |
| 12.5° | 4049.5  | 3973.7  | 3849.1 | 3775.1 | 3753.6 | 3764.3 | 3795.1 | 3840.2 | 3897.9 | 3932.2 | 3933.9 |
| 15°   | 4006.3  | 3917.8  | 3789.7 | 3724.7 | 3715.7 | 3730.1 | 3759.0 | 3793.3 | 3838.4 | 3872.7 | 3876.2 |
| 17.5° | 3953.9  | 3861.9  | 3733.7 | 3666.9 | 3659.8 | 3666.9 | 3668.8 | 3686.7 | 3715.7 | 3748.2 | 3757.3 |
| 20°   | 3897.9  | 3804.1  | 3670.6 | 3603.8 | 3571.3 | 3542.5 | 3509.9 | 3513.5 | 3522.6 | 3555.0 | 3562.3 |
| 22.5° | 3858.2  | 3764.3  | 3621.8 | 3529.8 | 3443.2 | 3356.5 | 3291.6 | 3282.5 | 3286.2 | 3313.2 | 3322.2 |
| 25°   | 3861.9  | 3762.6  | 3609.2 | 3450.4 | 3260.8 | 3122.0 | 3035.4 | 3020.9 | 3019.2 | 3039.0 | 3051.5 |
| 27.5° | 3932.2  | 3833.0  | 3656.1 | 3369.2 | 3062.4 | 2856.7 | 2764.7 | 2753.8 | 2739.4 | 2744.9 | 2759.2 |
| 30°   | 4089.3  | 3997.2  | 3769.7 | 3286.2 | 2847.6 | 2596.8 | 2501.2 | 2490.3 | 2470.5 | 2461.4 | 2472.2 |
| 32.5° | 4345.6  | 4269.6  | 3935.8 | 3206.8 | 2632.9 | 2374.8 | 2277.5 | 2253.9 | 2241.4 | 2230.5 | 2239.6 |
| 35°   | 4771.3  | 4738.9  | 4157.7 | 3120.2 | 2443.4 | 2203.5 | 2115.0 | 2078.9 | 2060.8 | 2080.7 | 2095.1 |
| 37.5° | 5439.1  | 5457.2  | 4448.3 | 2984.8 | 2297.2 | 2089.6 | 2015.7 | 1974.3 | 1947.2 | 1963.3 | 1979.7 |
| 40°   | 6384.7  | 6397.3  | 4769.6 | 2793.5 | 2170.9 | 2023.0 | 1943.6 | 1905.7 | 1867.8 | 1838.9 | 1837.0 |
| 42.5° | 7626.3  | 7498.2  | 5085.3 | 2586.0 | 2024.8 | 1981.4 | 1893.0 | 1846.0 | 1788.3 | 1708.9 | 1692.6 |
| 45°   | 9098.8  | 8649.4  | 5325.3 | 2347.8 | 1860.5 | 1930.8 | 1837.0 | 1772.0 | 1681.8 | 1595.3 | 1586.2 |
| 47.5° | 10795.1 | 9885.6  | 5442.7 | 2100.5 | 1707.1 | 1856.9 | 1768.6 | 1665.6 | 1551.9 | 1508.7 | 1503.3 |
| 50°   | 12866.8 | 11352.7 | 5498.5 | 1860.5 | 1573.7 | 1759.5 | 1669.2 | 1548.4 | 1452.6 | 1443.7 | 1438.2 |
| 52.5° | 15225.4 | 13117.6 | 5516.6 | 1663.8 | 1463.5 | 1633.2 | 1588.1 | 1470.7 | 1395.0 | 1402.2 | 1402.2 |
| 55°   | 17694.0 | 14940.3 | 5271.3 | 1521.3 | 1362.5 | 1503.3 | 1533.9 | 1440.1 | 1376.9 | 1405.8 | 1416.5 |
| 57.5° | 19960.6 | 16555.4 | 4498.8 | 1411.1 | 1266.8 | 1404.1 | 1514.1 | 1469.0 | 1425.6 | 1542.8 | 1550.1 |
| 60°   | 21700.3 | 17510.0 | 3360.2 | 1312.0 | 1196.5 | 1369.6 | 1566.4 | 1579.0 | 1589.8 | 1869.6 | 1907.5 |
| 62.5° | 22064.8 | 17192.4 | 2309.9 | 1234.4 | 1163.9 | 1398.5 | 1662.0 | 1663.8 | 1651.3 | 1846.0 | 1869.6 |
| 65°   | 20392.0 | 15183.8 | 1680.1 | 1191.1 | 1136.8 | 1450.9 | 1743.3 | 1705.3 | 1622.2 | 1770.3 | 1727.0 |
| 67.5° | 16194.5 | 11439.3 | 1398.5 | 1158.5 | 1097.2 | 1447.3 | 1829.8 | 1743.3 | 1606.1 | 1734.2 | 1663.8 |
| 70°   | 10511.7 | 6916.9  | 1245.2 | 1131.4 | 1050.3 | 1378.7 | 1880.4 | 1739.7 | 1559.2 | 1613.3 | 1530.4 |
| 72.5° | 5128.7  | 3093.0  | 1142.4 | 1091.8 | 1001.5 | 1283.0 | 1878.5 | 1707.1 | 1510.4 | 1506.8 | 1461.7 |
| 75°   | 2006.8  | 1416.5  | 1048.5 | 1032.2 | 918.5  | 1174.9 | 1828.1 | 1660.2 | 1452.6 | 1395.0 | 1378.7 |
| 77.5° | 1174.9  | 1010.6  | 929.3  | 943.8  | 819.3  | 1066.5 | 1754.1 | 1579.0 | 1373.2 | 1304.7 | 1286.7 |
| 80°   | 855.4   | 756.2   | 792.2  | 815.8  | 700.1  | 958.2  | 1654.8 | 1479.8 | 1284.8 | 1319.2 | 1293.9 |
| 82.5° | 548.5   | 487.2   | 642.5  | 666.0  | 582.9  | 848.2  | 1546.5 | 1375.0 | 1160.3 | 1053.9 | 1028.6 |
| 85°   | 279.7   | 308.6   | 478.2  | 507.2  | 449.3  | 696.5  | 1414.8 | 1236.2 | 1019.5 | 877.0  | 891.5  |
| 87.5° | 157.1   | 211.1   | 305.0  | 341.0  | 317.6  | 536.0  | 1147.8 | 1019.5 | 831.9  | 676.8  | 595.5  |
| 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)