

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: P191957

Luminaire Tested: **GAN-AF-09-LED-U-SL3-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191957  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
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-SL3-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35064 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G5

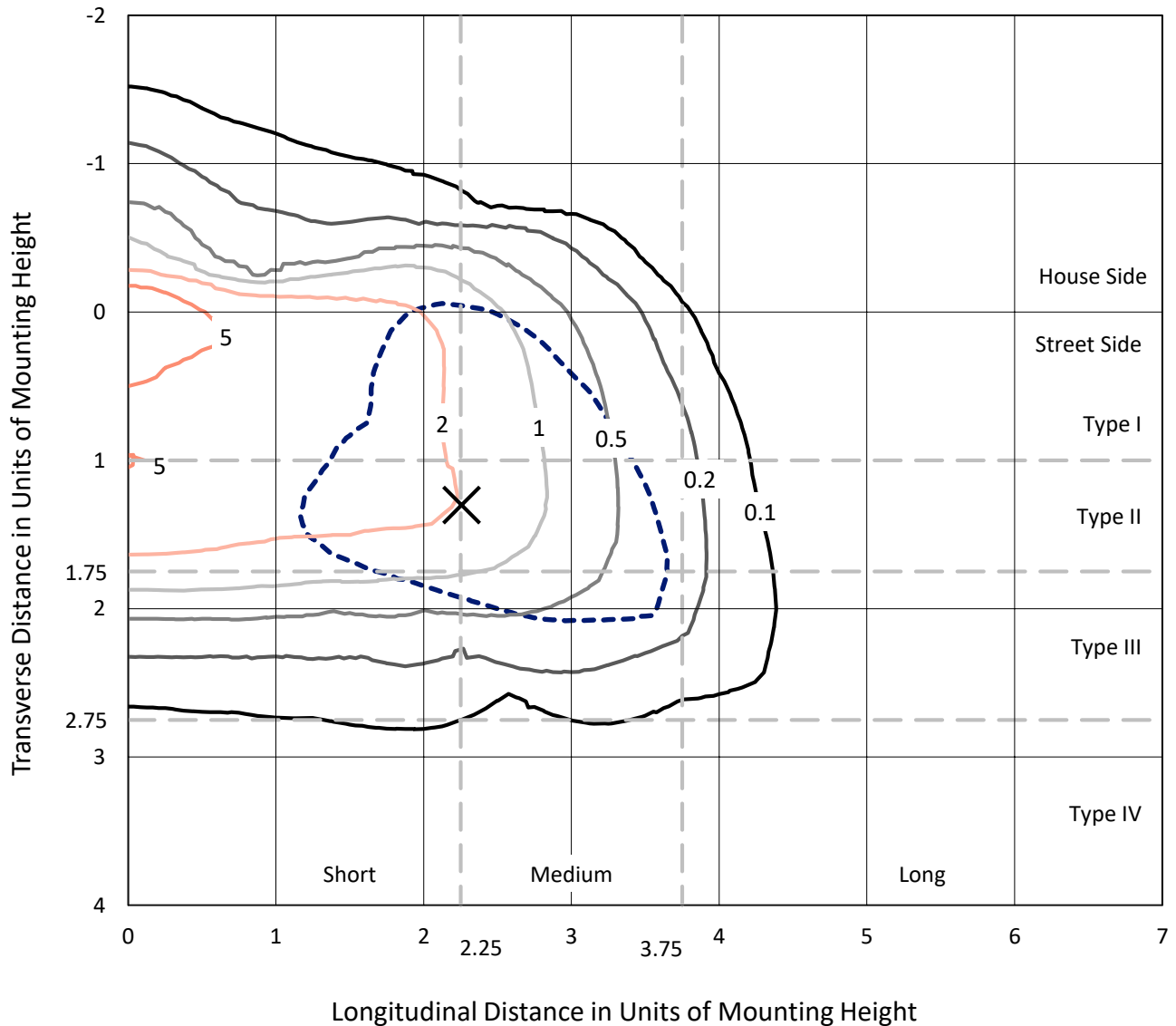
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

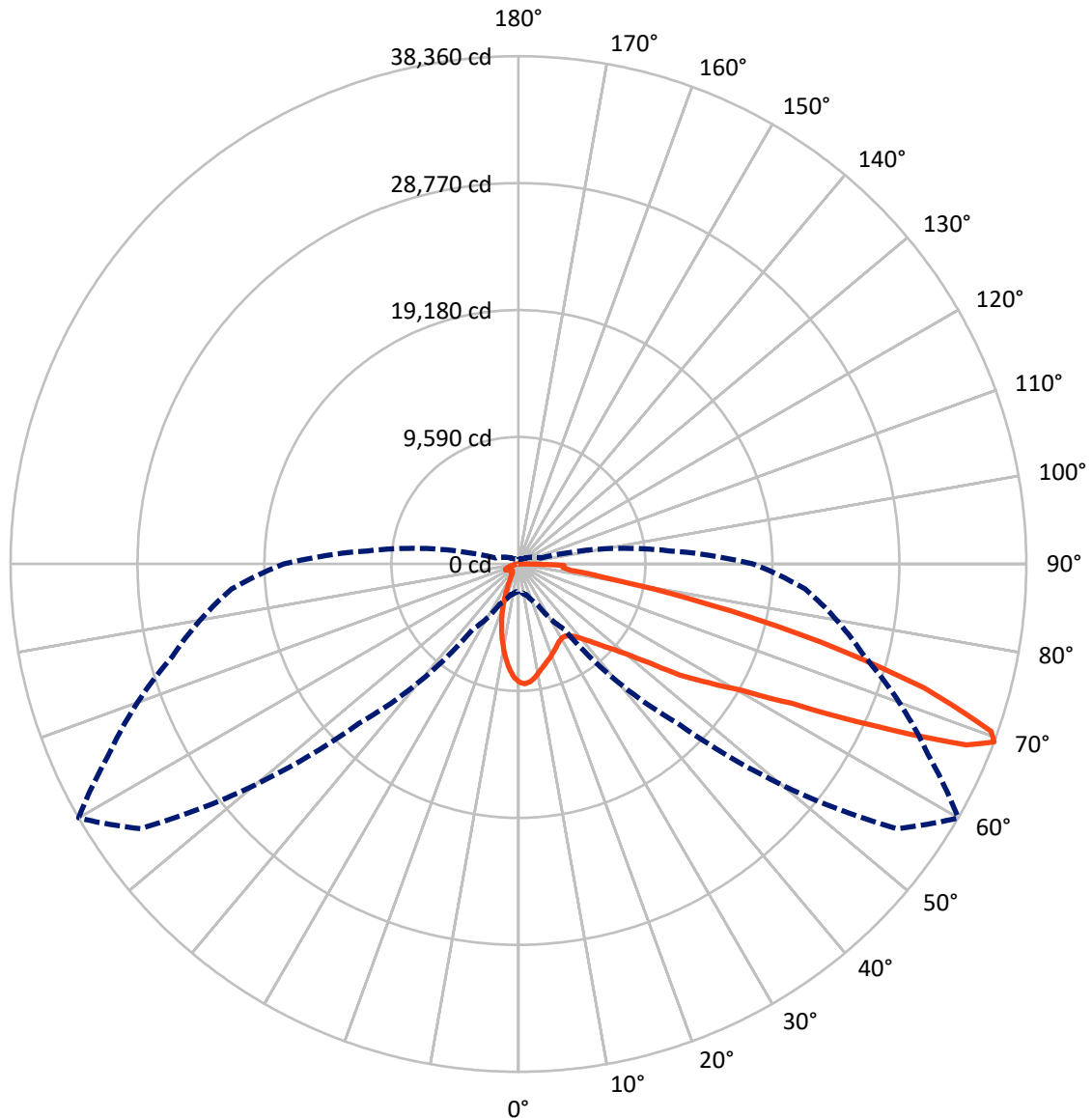
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4988.5   | 0.0    | 4988.5  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 30075.5  | 0.0    | 30075.5 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 35064.0  | 0.0    | 35064.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 755.5   | 2.2       |
| 10°-20°   | 1609.6  | 4.6       |
| 20°-30°   | 2050.9  | 5.8       |
| 30°-40°   | 2819.5  | 8.0       |
| 40°-50°   | 4574.9  | 13.0      |
| 50°-60°   | 7336.9  | 20.9      |
| 60°-70°   | 9764.8  | 27.8      |
| 70°-80°   | 5272.3  | 15.0      |
| 80°-90°   | 879.7   | 2.5       |
| 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°    | 35064.0 | 100.0     |
| 0°-180°   | 35064.0 | 100.0     |

**Coefficient of Utilization**



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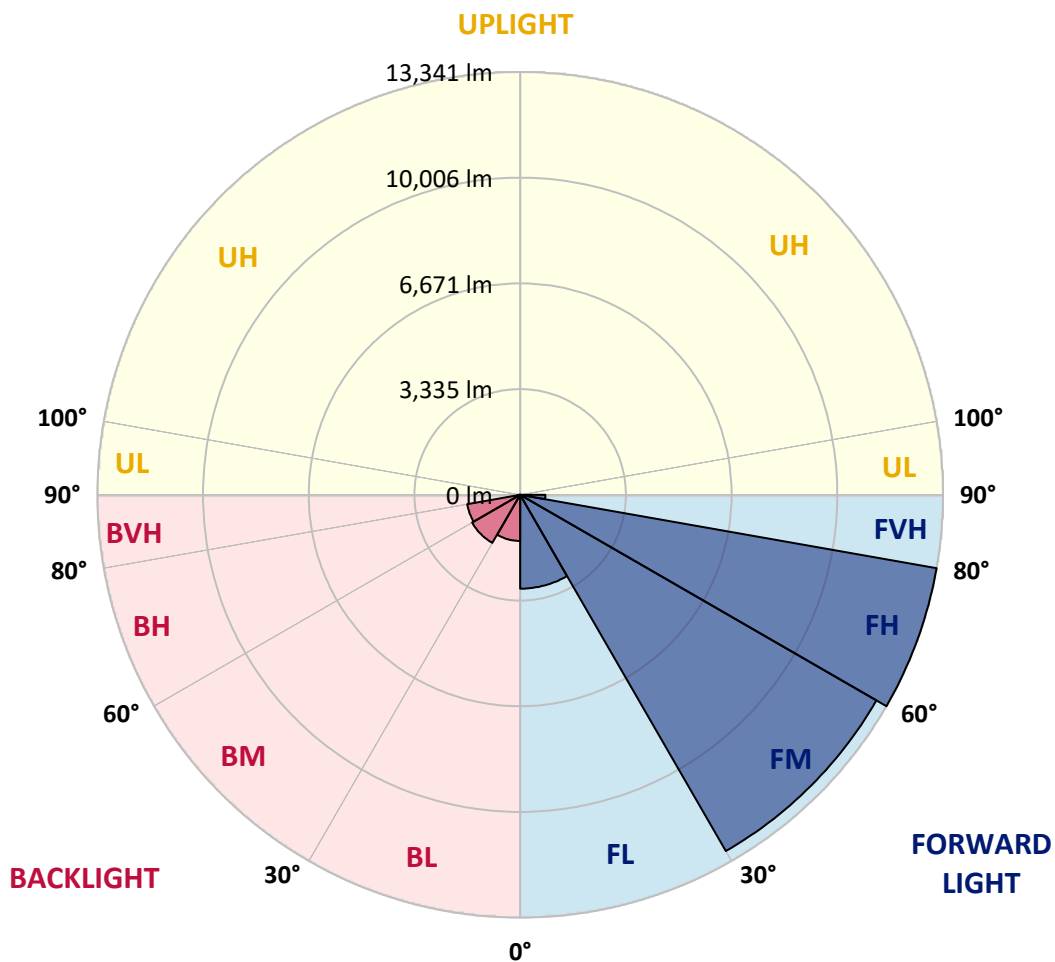
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2960.7  | 8.4       |                         |      |         |
| FM (30°-60°)   | 12978.7 | 37.0      |                         |      |         |
| FH (60°-80°)   | 13341.2 | 38.0      |                         |      | G5      |
| FVH (80°-90°)  | 795.0   | 2.3       |                         |      | G5      |
| BL (0°-30°)    | 1455.3  | 4.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 1752.6  | 5.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 1695.9  | 4.8       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 84.7    | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 60°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8934.8  | 8934.8  | 8934.8  | 8934.8  | 8934.8  | 8934.8  | 8934.8  | 8934.8  | 8934.8  | 8934.8  | 8934.8  |
| 2.5°  | 9117.8  | 9138.1  | 9129.6  | 9124.5  | 9139.8  | 9116.1  | 9067.0  | 9051.7  | 9028.0  | 8972.1  | 8877.3  |
| 5°    | 8775.6  | 8836.6  | 8833.2  | 8878.9  | 8955.2  | 8975.5  | 8953.5  | 8956.9  | 8912.8  | 8843.4  | 8685.8  |
| 7.5°  | 8184.5  | 8209.9  | 8223.4  | 8323.4  | 8462.3  | 8574.1  | 8668.9  | 8699.4  | 8679.1  | 8619.8  | 8416.5  |
| 10°   | 7574.7  | 7595.0  | 7627.2  | 7744.1  | 7920.2  | 8074.4  | 8253.9  | 8357.3  | 8401.3  | 8391.1  | 8164.2  |
| 12.5° | 7051.3  | 7071.7  | 7114.0  | 7246.1  | 7456.1  | 7645.9  | 7906.7  | 8035.4  | 8140.4  | 8203.1  | 7959.2  |
| 15°   | 6582.1  | 6626.2  | 6666.8  | 6819.3  | 7054.7  | 7303.7  | 7598.4  | 7761.0  | 7923.6  | 8064.2  | 7778.0  |
| 17.5° | 6216.3  | 6260.3  | 6284.0  | 6422.9  | 6673.6  | 6978.5  | 7324.0  | 7515.4  | 7718.7  | 7949.0  | 7598.4  |
| 20°   | 6004.6  | 6024.9  | 6014.7  | 6092.6  | 6317.9  | 6641.4  | 7051.3  | 7273.2  | 7518.8  | 7840.6  | 7418.9  |
| 22.5° | 5945.3  | 5947.0  | 5909.7  | 5901.2  | 6046.9  | 6319.6  | 6760.0  | 7029.3  | 7330.8  | 7769.5  | 7264.7  |
| 25°   | 6089.2  | 6084.2  | 5982.5  | 5899.5  | 5914.8  | 6074.0  | 6478.8  | 6792.2  | 7173.3  | 7754.3  | 7146.2  |
| 27.5° | 6409.4  | 6424.6  | 6273.9  | 6118.0  | 5963.9  | 5958.8  | 6265.4  | 6595.7  | 7044.5  | 7823.7  | 7095.4  |
| 30°   | 6858.2  | 6883.6  | 6722.7  | 6524.6  | 6234.9  | 5996.1  | 6182.4  | 6478.8  | 6964.9  | 7967.7  | 7086.9  |
| 32.5° | 7349.4  | 7376.5  | 7254.6  | 7046.2  | 6666.8  | 6226.4  | 6240.0  | 6489.0  | 6961.6  | 8169.2  | 7144.5  |
| 35°   | 7872.8  | 7903.3  | 7840.6  | 7664.5  | 7242.7  | 6651.6  | 6460.2  | 6653.3  | 7071.7  | 8477.5  | 7298.6  |
| 37.5° | 8457.2  | 8504.6  | 8521.6  | 8353.9  | 7903.3  | 7212.2  | 6821.0  | 6964.9  | 7320.6  | 8906.0  | 7581.5  |
| 40°   | 9299.0  | 9365.1  | 9360.0  | 9119.5  | 8660.4  | 7969.4  | 7378.2  | 7415.5  | 7708.5  | 9478.6  | 8033.7  |
| 42.5° | 10911.5 | 10925.1 | 10503.3 | 9979.9  | 9493.8  | 8765.5  | 8035.4  | 8004.9  | 8243.8  | 10203.5 | 8699.4  |
| 45°   | 12962.7 | 12906.8 | 11968.5 | 10957.2 | 10364.4 | 9680.1  | 8890.8  | 8741.7  | 8923.0  | 11087.7 | 9532.8  |
| 47.5° | 14665.0 | 14536.3 | 13350.6 | 11954.9 | 11285.8 | 10674.4 | 9895.2  | 9634.4  | 9734.3  | 12090.4 | 10610.0 |
| 50°   | 15256.1 | 15159.6 | 14177.2 | 12784.9 | 12158.2 | 11887.1 | 11131.7 | 10762.5 | 10789.6 | 13286.2 | 11871.9 |
| 52.5° | 15129.1 | 15115.5 | 14460.0 | 13332.0 | 12974.6 | 13160.9 | 12883.1 | 12383.4 | 12119.2 | 14614.2 | 13233.7 |
| 55°   | 14829.3 | 14858.1 | 14621.0 | 13968.8 | 13907.9 | 14390.6 | 15171.4 | 14802.2 | 13980.7 | 15954.0 | 14641.3 |
| 57.5° | 13787.6 | 13862.1 | 14383.8 | 14770.0 | 15410.3 | 16128.4 | 17014.3 | 16909.3 | 15984.5 | 17402.2 | 16314.8 |
| 60°   | 11108.0 | 11280.8 | 12679.9 | 14614.2 | 16956.7 | 19202.7 | 19599.1 | 19355.1 | 18050.9 | 19199.3 | 18525.2 |
| 62.5° | 7783.0  | 7962.6  | 9625.9  | 12652.7 | 16702.6 | 22675.0 | 24219.8 | 23167.9 | 21018.5 | 21846.7 | 21386.0 |
| 65°   | 4166.8  | 4253.2  | 5523.5  | 8779.0  | 14101.0 | 23391.5 | 30973.0 | 29372.3 | 25717.1 | 25110.7 | 23833.6 |
| 67.5° | 2298.5  | 2345.9  | 2832.0  | 4432.7  | 9031.4  | 20598.4 | 35275.3 | 36484.6 | 31589.5 | 27283.9 | 23388.1 |
| 69°   | 2078.3  | 2122.3  | 2440.8  | 3357.1  | 6043.5  | 17031.2 | 34855.2 | 38359.7 | 34164.1 | 27068.8 | 21741.7 |
| 70°   | 2032.6  | 2073.2  | 2359.5  | 3094.6  | 4891.7  | 14038.3 | 33447.6 | 37880.3 | 34777.3 | 26298.1 | 20305.4 |
| 72.5° | 1829.3  | 1873.4  | 2151.1  | 2779.5  | 4180.3  | 6998.8  | 26494.6 | 32028.2 | 31574.3 | 22802.0 | 15401.8 |
| 75°   | 1705.7  | 1746.3  | 2217.2  | 2722.0  | 4002.5  | 4429.3  | 17466.6 | 23604.9 | 23210.3 | 15950.6 | 8304.7  |
| 77.5° | 730.0   | 726.6   | 1028.1  | 2303.6  | 4061.8  | 4288.7  | 9385.4  | 14746.3 | 13453.9 | 6817.6  | 2384.9  |
| 80°   | 487.8   | 479.3   | 487.8   | 677.5   | 3724.7  | 4312.4  | 4917.1  | 7484.9  | 5653.9  | 1737.8  | 1175.5  |
| 82.5° | 420.1   | 413.3   | 428.5   | 413.3   | 1309.3  | 4922.2  | 4180.3  | 3980.4  | 2688.1  | 987.5   | 582.7   |
| 85°   | 282.9   | 271.0   | 369.3   | 370.9   | 618.2   | 4373.4  | 4708.8  | 3362.2  | 2174.9  | 586.1   | 287.9   |
| 87.5° | 135.5   | 132.1   | 215.1   | 262.5   | 362.5   | 1776.8  | 5283.0  | 3445.2  | 2193.5  | 299.8   | 137.2   |
| 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°    | 8934.8  | 8934.8  | 8934.8 | 8934.8 | 8934.8 | 8934.8 | 8934.8 | 8934.8 | 8934.8 | 8934.8 | 8934.8 |
| 2.5°  | 8848.5  | 8779.0  | 8711.3 | 8630.0 | 8545.3 | 8450.4 | 8403.0 | 8355.6 | 8343.7 | 8330.2 | 8282.7 |
| 5°    | 8604.5  | 8506.3  | 8336.9 | 8150.6 | 7954.1 | 7762.7 | 7617.1 | 7525.6 | 7456.1 | 7420.6 | 7357.9 |
| 7.5°  | 8289.5  | 8145.5  | 7849.1 | 7527.3 | 7197.0 | 6895.5 | 6634.6 | 6470.3 | 6314.5 | 6241.7 | 6158.7 |
| 10°   | 7989.7  | 7774.6  | 7313.9 | 6839.6 | 6365.3 | 5909.7 | 5481.2 | 5178.0 | 4908.7 | 4757.9 | 4651.2 |
| 12.5° | 7732.2  | 7437.5  | 6798.9 | 6157.0 | 5506.6 | 4857.8 | 4215.9 | 3711.1 | 3289.4 | 3067.5 | 2954.0 |
| 15°   | 7481.6  | 7125.9  | 6309.4 | 5494.7 | 4659.7 | 3777.2 | 2933.7 | 2361.2 | 2012.2 | 1873.4 | 1825.9 |
| 17.5° | 7254.6  | 6798.9  | 5818.2 | 4827.4 | 3785.7 | 2718.6 | 1971.6 | 1656.5 | 1522.7 | 1477.0 | 1461.8 |
| 20°   | 7009.0  | 6468.7  | 5308.4 | 4129.5 | 2874.4 | 1900.5 | 1539.7 | 1400.8 | 1346.6 | 1333.0 | 1326.3 |
| 22.5° | 6771.8  | 6143.4  | 4820.6 | 3382.5 | 2064.8 | 1466.8 | 1322.9 | 1265.3 | 1256.8 | 1268.7 | 1268.7 |
| 25°   | 6570.3  | 5852.1  | 4293.8 | 2601.7 | 1516.0 | 1234.8 | 1184.0 | 1170.4 | 1202.6 | 1246.6 | 1255.1 |
| 27.5° | 6419.5  | 5613.3  | 3733.2 | 1920.8 | 1207.7 | 1073.9 | 1072.2 | 1094.2 | 1173.8 | 1258.5 | 1275.4 |
| 30°   | 6316.2  | 5386.3  | 3133.5 | 1385.5 | 1012.9 | 945.1  | 972.2  | 1019.7 | 1136.5 | 1256.8 | 1289.0 |
| 32.5° | 6263.7  | 5218.6  | 2508.5 | 1072.2 | 867.2  | 830.0  | 875.7  | 933.3  | 1048.5 | 1160.3 | 1202.6 |
| 35°   | 6304.4  | 5095.0  | 1919.1 | 894.3  | 765.6  | 736.8  | 784.2  | 840.1  | 907.9  | 955.3  | 987.5  |
| 37.5° | 6456.8  | 5045.9  | 1448.2 | 801.2  | 696.2  | 669.1  | 706.3  | 738.5  | 765.6  | 779.2  | 794.4  |
| 40°   | 6785.4  | 5098.4  | 1160.3 | 753.7  | 657.2  | 623.3  | 638.6  | 650.4  | 667.4  | 680.9  | 687.7  |
| 42.5° | 7269.8  | 5255.9  | 1040.0 | 735.1  | 636.9  | 587.8  | 584.4  | 589.4  | 611.5  | 636.9  | 642.0  |
| 45°   | 7947.3  | 5533.7  | 1031.5 | 747.0  | 626.7  | 559.0  | 543.7  | 550.5  | 584.4  | 623.3  | 630.1  |
| 47.5° | 8812.9  | 5957.1  | 1099.3 | 782.5  | 635.2  | 543.7  | 518.3  | 526.8  | 569.1  | 621.6  | 630.1  |
| 50°   | 9861.4  | 6548.3  | 1212.8 | 835.0  | 672.4  | 547.1  | 509.8  | 514.9  | 559.0  | 616.5  | 625.0  |
| 52.5° | 11099.5 | 7386.7  | 1336.4 | 885.9  | 711.4  | 569.1  | 516.6  | 504.8  | 545.4  | 596.2  | 606.4  |
| 55°   | 12476.6 | 8462.3  | 1463.5 | 931.6  | 731.7  | 596.2  | 530.2  | 491.2  | 520.0  | 562.3  | 570.8  |
| 57.5° | 14167.0 | 9966.4  | 1683.6 | 975.6  | 745.3  | 614.9  | 543.7  | 477.7  | 487.8  | 518.3  | 525.1  |
| 60°   | 16455.3 | 12093.8 | 2071.5 | 1048.5 | 775.8  | 621.6  | 542.0  | 465.8  | 455.6  | 472.6  | 476.0  |
| 62.5° | 19197.6 | 14404.1 | 2395.0 | 1139.9 | 826.6  | 626.7  | 531.9  | 457.3  | 428.5  | 428.5  | 431.9  |
| 65°   | 20825.4 | 15022.4 | 2215.5 | 1216.2 | 868.9  | 621.6  | 520.0  | 448.9  | 408.2  | 389.6  | 391.3  |
| 67.5° | 19444.9 | 13211.7 | 1898.8 | 1231.4 | 867.2  | 597.9  | 501.4  | 433.6  | 387.9  | 359.1  | 357.4  |
| 69°   | 17715.5 | 11399.3 | 1756.5 | 1190.7 | 826.6  | 567.4  | 477.7  | 416.7  | 372.6  | 342.1  | 340.5  |
| 70°   | 16321.5 | 10293.3 | 1663.3 | 1146.7 | 782.5  | 545.4  | 459.0  | 401.4  | 360.8  | 332.0  | 328.6  |
| 72.5° | 11866.8 | 6744.7  | 1421.1 | 985.8  | 645.3  | 457.3  | 396.4  | 352.3  | 321.8  | 304.9  | 301.5  |
| 75°   | 5930.0  | 3216.5  | 1153.5 | 799.5  | 494.6  | 365.9  | 325.2  | 294.7  | 279.5  | 276.1  | 274.4  |
| 77.5° | 1947.9  | 1473.6  | 824.9  | 596.2  | 367.6  | 286.3  | 262.5  | 240.5  | 237.1  | 247.3  | 243.9  |
| 80°   | 1070.5  | 857.1   | 523.4  | 394.7  | 250.7  | 210.0  | 206.6  | 194.8  | 199.9  | 216.8  | 213.4  |
| 82.5° | 545.4   | 445.5   | 323.5  | 237.1  | 169.4  | 150.7  | 164.3  | 157.5  | 164.3  | 179.5  | 177.8  |
| 85°   | 269.3   | 243.9   | 205.0  | 144.0  | 111.8  | 96.5   | 116.9  | 122.0  | 125.3  | 137.2  | 137.2  |
| 87.5° | 155.8   | 144.0   | 108.4  | 67.8   | 55.9   | 50.8   | 67.8   | 66.1   | 77.9   | 84.7   | 83.0   |
| 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)