

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: P193707

Luminaire Tested: **GAN-AF-09-LED-U-SL3-8030-800-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193707  
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-SL3-8030-800-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 800mA 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: 35086 lumens  
Efficiency: N/A  
Efficacy: 93.8 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): 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

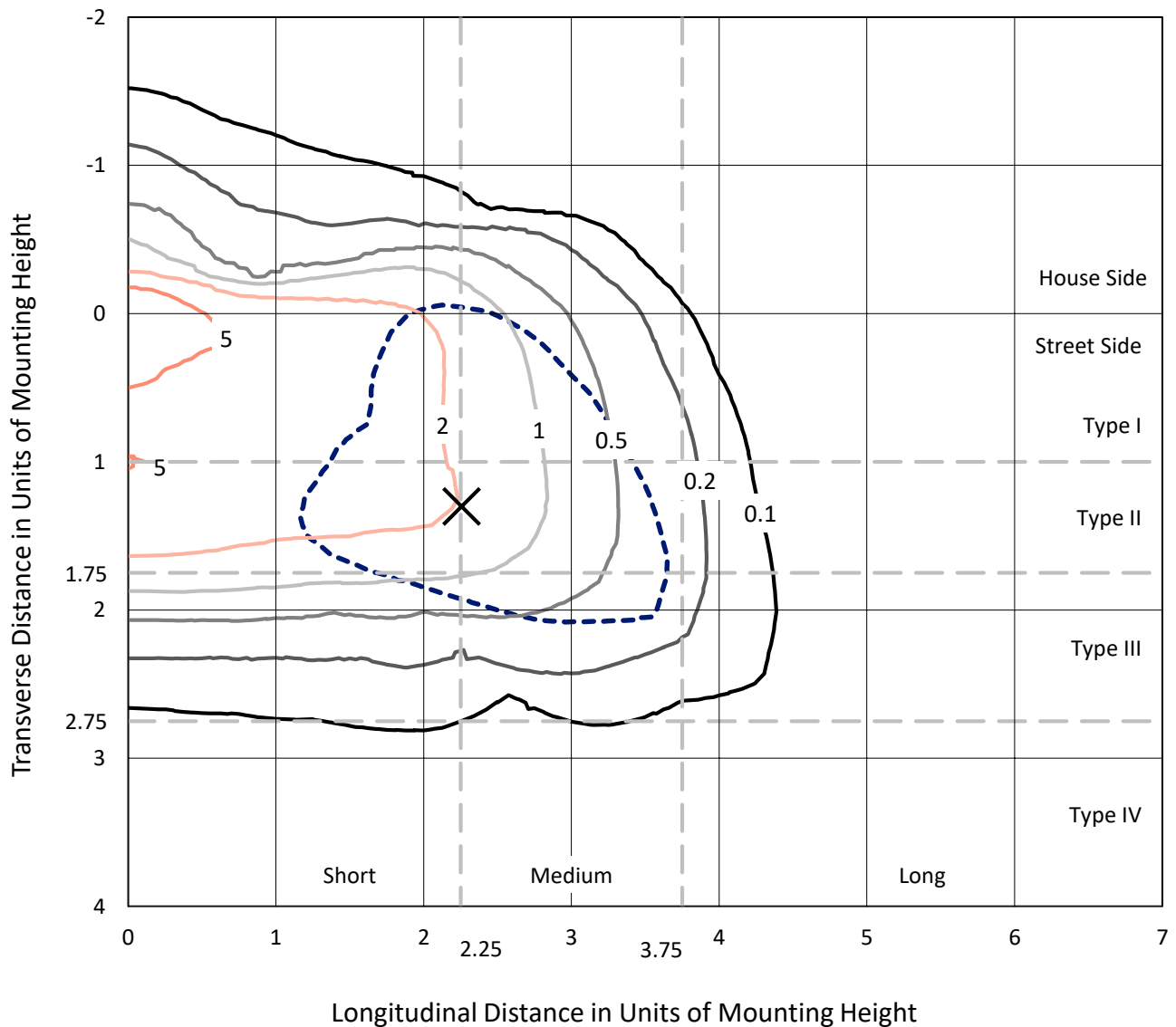


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

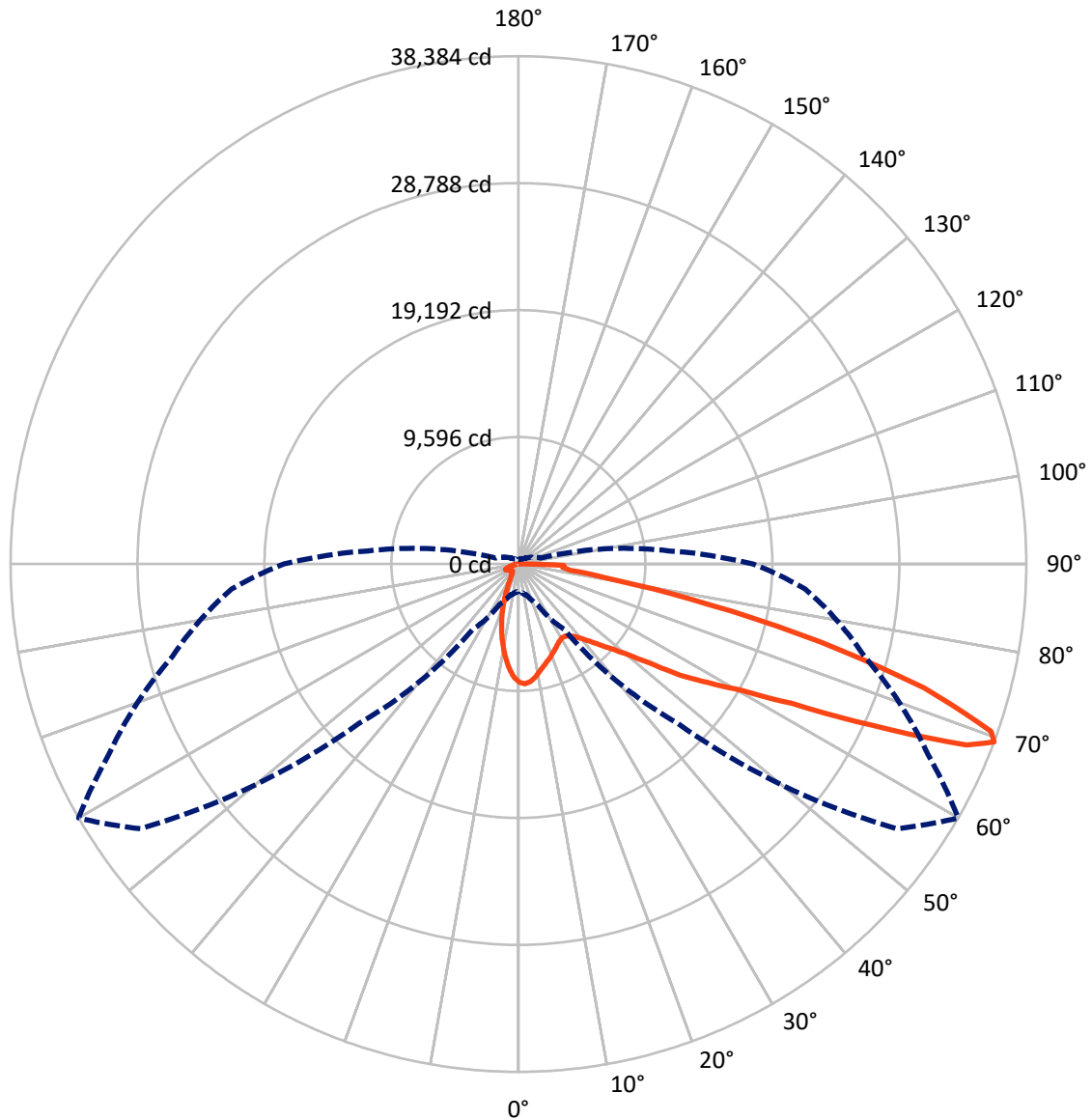


Based on 30 foot mounting height. Maximum calculated value = 9.9 fc  
 Type III - Medium - Non-Cutoff

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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    | 4991.6   | 0.0    | 4991.6  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 30094.4  | 0.0    | 30094.4 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 35086.0  | 0.0    | 35086.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 755.9   | 2.2       |
| 10°-20°   | 1610.6  | 4.6       |
| 20°-30°   | 2052.2  | 5.8       |
| 30°-40°   | 2821.2  | 8.0       |
| 40°-50°   | 4577.7  | 13.0      |
| 50°-60°   | 7341.5  | 20.9      |
| 60°-70°   | 9771.0  | 27.8      |
| 70°-80°   | 5275.6  | 15.0      |
| 80°-90°   | 880.3   | 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°    | 35086.0 | 100.0     |
| 0°-180°   | 35086.0 | 100.0     |

**Coefficient of Utilization**



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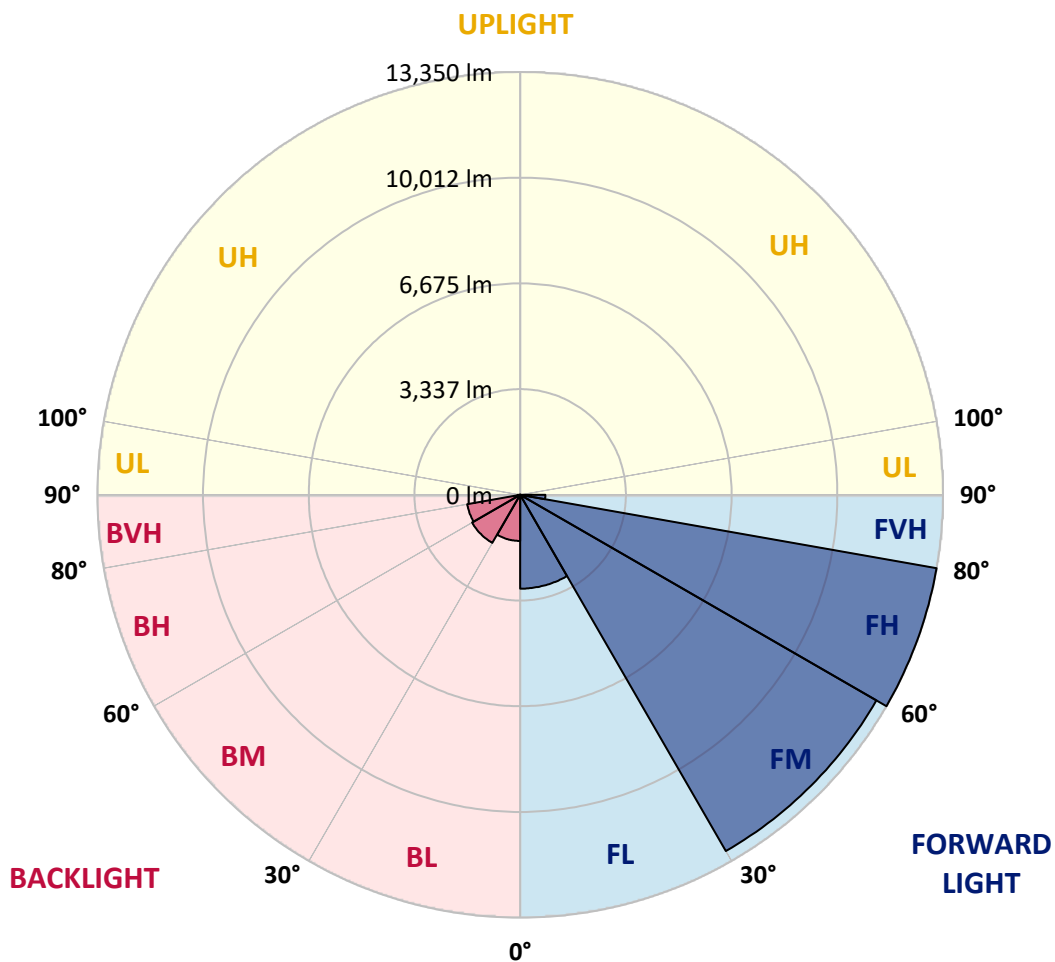
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2962.5  | 8.4       |                         |      |         |
| FM (30°-60°)   | 12986.8 | 37.0      |                         |      |         |
| FH (60°-80°)   | 13349.6 | 38.0      |                         |      | G5      |
| FVH (80°-90°)  | 795.5   | 2.3       |                         |      | G5      |
| BL (0°-30°)    | 1456.2  | 4.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 1753.7  | 5.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 1697.0  | 4.8       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 84.8    | 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°    | 8940.4  | 8940.4  | 8940.4  | 8940.4  | 8940.4  | 8940.4  | 8940.4  | 8940.4  | 8940.4  | 8940.4  | 8940.4  |
| 2.5°  | 9123.5  | 9143.8  | 9135.4  | 9130.3  | 9145.5  | 9121.8  | 9072.6  | 9057.4  | 9033.7  | 8977.7  | 8882.8  |
| 5°    | 8781.1  | 8842.1  | 8838.8  | 8884.5  | 8960.8  | 8981.1  | 8959.1  | 8962.5  | 8918.4  | 8848.9  | 8691.3  |
| 7.5°  | 8189.6  | 8215.0  | 8228.6  | 8328.6  | 8467.6  | 8579.4  | 8674.4  | 8704.9  | 8684.5  | 8625.2  | 8421.8  |
| 10°   | 7579.5  | 7599.8  | 7632.0  | 7749.0  | 7925.2  | 8079.5  | 8259.1  | 8362.5  | 8406.6  | 8396.4  | 8169.3  |
| 12.5° | 7055.7  | 7076.1  | 7118.5  | 7250.7  | 7460.8  | 7650.6  | 7911.7  | 8040.5  | 8145.6  | 8208.3  | 7964.2  |
| 15°   | 6586.3  | 6630.3  | 6671.0  | 6823.6  | 7059.1  | 7308.3  | 7603.2  | 7765.9  | 7928.6  | 8069.3  | 7782.8  |
| 17.5° | 6220.2  | 6264.2  | 6288.0  | 6427.0  | 6677.8  | 6982.9  | 7328.6  | 7520.1  | 7723.5  | 7954.0  | 7603.2  |
| 20°   | 6008.3  | 6028.7  | 6018.5  | 6096.5  | 6321.9  | 6645.6  | 7055.7  | 7277.8  | 7523.5  | 7845.6  | 7423.5  |
| 22.5° | 5949.0  | 5950.7  | 5913.4  | 5904.9  | 6050.7  | 6323.6  | 6764.2  | 7033.7  | 7335.4  | 7774.4  | 7269.3  |
| 25°   | 6093.1  | 6088.0  | 5986.3  | 5903.2  | 5918.5  | 6077.8  | 6482.9  | 6796.4  | 7177.8  | 7759.1  | 7150.7  |
| 27.5° | 6413.4  | 6428.6  | 6277.8  | 6121.9  | 5967.6  | 5962.6  | 6269.3  | 6599.8  | 7049.0  | 7828.6  | 7099.8  |
| 30°   | 6862.5  | 6888.0  | 6726.9  | 6528.6  | 6238.8  | 5999.8  | 6186.3  | 6482.9  | 6969.3  | 7972.7  | 7091.3  |
| 32.5° | 7354.0  | 7381.2  | 7259.1  | 7050.7  | 6671.0  | 6230.3  | 6243.9  | 6493.1  | 6965.9  | 8174.4  | 7149.0  |
| 35°   | 7877.8  | 7908.3  | 7845.6  | 7669.3  | 7247.3  | 6655.8  | 6464.2  | 6657.5  | 7076.1  | 8482.8  | 7303.2  |
| 37.5° | 8462.5  | 8509.9  | 8526.9  | 8359.1  | 7908.3  | 7216.8  | 6825.2  | 6969.3  | 7325.2  | 8911.6  | 7586.2  |
| 40°   | 9304.8  | 9370.9  | 9365.9  | 9125.2  | 8665.9  | 7974.4  | 7382.9  | 7420.1  | 7713.4  | 9484.5  | 8038.8  |
| 42.5° | 10918.4 | 10931.9 | 10509.9 | 9986.2  | 9499.8  | 8771.0  | 8040.5  | 8010.0  | 8248.9  | 10209.9 | 8704.9  |
| 45°   | 12970.8 | 12914.9 | 11976.0 | 10964.1 | 10370.9 | 9686.2  | 8896.4  | 8747.2  | 8928.6  | 11094.6 | 9538.7  |
| 47.5° | 14674.2 | 14545.4 | 13359.0 | 11962.4 | 11292.9 | 10681.1 | 9901.4  | 9640.4  | 9740.4  | 12098.0 | 10616.7 |
| 50°   | 15265.7 | 15169.1 | 14186.1 | 12792.9 | 12165.8 | 11894.6 | 11138.7 | 10769.2 | 10796.3 | 13294.6 | 11879.4 |
| 52.5° | 15138.6 | 15125.0 | 14469.1 | 13340.3 | 12982.7 | 13169.1 | 12891.2 | 12391.2 | 12126.8 | 14623.3 | 13242.0 |
| 55°   | 14838.6 | 14867.4 | 14630.1 | 13977.6 | 13916.6 | 14399.6 | 15181.0 | 14811.5 | 13989.5 | 15964.0 | 14650.5 |
| 57.5° | 13796.3 | 13870.8 | 14392.8 | 14779.3 | 15419.9 | 16138.6 | 17025.0 | 16919.9 | 15994.5 | 17413.1 | 16325.0 |
| 60°   | 11115.0 | 11287.8 | 12687.8 | 14623.3 | 16967.4 | 19214.8 | 19611.4 | 19367.3 | 18062.2 | 19211.4 | 18536.8 |
| 62.5° | 7787.9  | 7967.6  | 9632.0  | 12660.7 | 16713.1 | 22689.2 | 24235.0 | 23182.4 | 21031.7 | 21860.4 | 21399.4 |
| 65°   | 4169.4  | 4255.8  | 5527.0  | 8784.5  | 14109.8 | 23406.2 | 30992.4 | 29390.8 | 25733.2 | 25126.5 | 23848.5 |
| 67.5° | 2299.9  | 2347.4  | 2833.8  | 4435.5  | 9037.1  | 20611.3 | 35297.4 | 36507.5 | 31609.3 | 27301.0 | 23402.8 |
| 69°   | 2079.6  | 2123.7  | 2442.3  | 3359.2  | 6047.3  | 17041.9 | 34877.1 | 38383.7 | 34185.6 | 27085.7 | 21755.4 |
| 70°   | 2033.8  | 2074.5  | 2361.0  | 3096.5  | 4894.8  | 14047.1 | 33468.6 | 37904.1 | 34799.1 | 26314.6 | 20318.1 |
| 72.5° | 1830.5  | 1874.5  | 2152.5  | 2781.3  | 4182.9  | 7003.2  | 26511.2 | 32048.3 | 31594.1 | 22816.4 | 15411.5 |
| 75°   | 1706.7  | 1747.4  | 2218.6  | 2723.7  | 4005.0  | 4432.1  | 17477.5 | 23619.7 | 23224.8 | 15960.6 | 8310.0  |
| 77.5° | 730.5   | 727.1   | 1028.8  | 2305.0  | 4064.3  | 4291.4  | 9391.3  | 14755.5 | 13462.4 | 6821.9  | 2386.4  |
| 80°   | 488.1   | 479.6   | 488.1   | 677.9   | 3727.0  | 4315.1  | 4920.2  | 7489.6  | 5657.5  | 1738.9  | 1176.2  |
| 82.5° | 420.3   | 413.5   | 428.8   | 413.5   | 1310.1  | 4925.3  | 4182.9  | 3982.9  | 2689.8  | 988.1   | 583.0   |
| 85°   | 283.0   | 271.2   | 369.5   | 371.2   | 618.6   | 4376.2  | 4711.7  | 3364.3  | 2176.2  | 586.4   | 288.1   |
| 87.5° | 135.6   | 132.2   | 215.2   | 262.7   | 362.7   | 1777.9  | 5286.3  | 3447.4  | 2194.9  | 300.0   | 137.3   |
| 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°    | 8940.4  | 8940.4  | 8940.4 | 8940.4 | 8940.4 | 8940.4 | 8940.4 | 8940.4 | 8940.4 | 8940.4 | 8940.4 |
| 2.5°  | 8854.0  | 8784.5  | 8716.7 | 8635.4 | 8550.6 | 8455.7 | 8408.3 | 8360.8 | 8348.9 | 8335.4 | 8287.9 |
| 5°    | 8609.9  | 8511.6  | 8342.2 | 8155.7 | 7959.1 | 7767.6 | 7621.8 | 7530.3 | 7460.8 | 7425.2 | 7362.5 |
| 7.5°  | 8294.7  | 8150.6  | 7854.0 | 7532.0 | 7201.5 | 6899.8 | 6638.8 | 6474.4 | 6318.5 | 6245.6 | 6162.6 |
| 10°   | 7994.7  | 7779.5  | 7318.5 | 6843.9 | 6369.3 | 5913.4 | 5484.6 | 5181.2 | 4911.7 | 4760.9 | 4654.1 |
| 12.5° | 7737.1  | 7442.2  | 6803.2 | 6160.9 | 5510.0 | 4860.9 | 4218.5 | 3713.5 | 3291.4 | 3069.4 | 2955.9 |
| 15°   | 7486.2  | 7130.3  | 6313.4 | 5498.2 | 4662.6 | 3779.6 | 2935.5 | 2362.7 | 2013.5 | 1874.5 | 1827.1 |
| 17.5° | 7259.1  | 6803.2  | 5821.9 | 4830.4 | 3788.0 | 2720.3 | 1972.8 | 1657.6 | 1523.7 | 1477.9 | 1462.7 |
| 20°   | 7013.4  | 6472.7  | 5311.7 | 4132.1 | 2876.2 | 1901.6 | 1540.6 | 1401.7 | 1347.4 | 1333.9 | 1327.1 |
| 22.5° | 6776.1  | 6147.3  | 4823.6 | 3384.7 | 2066.0 | 1467.8 | 1323.7 | 1266.1 | 1257.6 | 1269.5 | 1269.5 |
| 25°   | 6574.4  | 5855.8  | 4296.5 | 2603.3 | 1516.9 | 1235.6 | 1184.7 | 1171.2 | 1203.4 | 1247.4 | 1255.9 |
| 27.5° | 6423.6  | 5616.8  | 3735.5 | 1922.0 | 1208.4 | 1074.5 | 1072.9 | 1094.9 | 1174.5 | 1259.3 | 1276.2 |
| 30°   | 6320.2  | 5389.7  | 3135.5 | 1386.4 | 1013.5 | 945.7  | 972.9  | 1020.3 | 1137.3 | 1257.6 | 1289.8 |
| 32.5° | 6267.6  | 5221.9  | 2510.1 | 1072.9 | 867.8  | 830.5  | 876.2  | 933.9  | 1049.1 | 1161.0 | 1203.4 |
| 35°   | 6308.3  | 5098.2  | 1920.3 | 894.9  | 766.1  | 737.3  | 784.7  | 840.7  | 908.5  | 955.9  | 988.1  |
| 37.5° | 6460.8  | 5049.0  | 1449.1 | 801.7  | 696.6  | 669.5  | 706.8  | 739.0  | 766.1  | 779.6  | 794.9  |
| 40°   | 6789.7  | 5101.6  | 1161.0 | 754.2  | 657.6  | 623.7  | 639.0  | 650.8  | 667.8  | 681.3  | 688.1  |
| 42.5° | 7274.4  | 5259.2  | 1040.7 | 735.6  | 637.3  | 588.1  | 584.7  | 589.8  | 611.8  | 637.3  | 642.4  |
| 45°   | 7952.3  | 5537.1  | 1032.2 | 747.4  | 627.1  | 559.3  | 544.1  | 550.8  | 584.7  | 623.7  | 630.5  |
| 47.5° | 8818.4  | 5960.9  | 1100.0 | 783.0  | 635.6  | 544.1  | 518.6  | 527.1  | 569.5  | 622.0  | 630.5  |
| 50°   | 9867.5  | 6552.4  | 1213.5 | 835.6  | 672.9  | 547.4  | 510.2  | 515.2  | 559.3  | 616.9  | 625.4  |
| 52.5° | 11106.5 | 7391.3  | 1337.3 | 886.4  | 711.8  | 569.5  | 516.9  | 505.1  | 545.7  | 596.6  | 606.8  |
| 55°   | 12484.4 | 8467.6  | 1464.4 | 932.2  | 732.2  | 596.6  | 530.5  | 491.5  | 520.3  | 562.7  | 571.2  |
| 57.5° | 14175.9 | 9972.6  | 1684.7 | 976.2  | 745.7  | 615.2  | 544.1  | 478.0  | 488.1  | 518.6  | 525.4  |
| 60°   | 16465.7 | 12101.4 | 2072.8 | 1049.1 | 776.3  | 622.0  | 542.4  | 466.1  | 455.9  | 472.9  | 476.3  |
| 62.5° | 19209.7 | 14413.2 | 2396.5 | 1140.6 | 827.1  | 627.1  | 532.2  | 457.6  | 428.8  | 428.8  | 432.2  |
| 65°   | 20838.4 | 15031.8 | 2216.9 | 1216.9 | 869.5  | 622.0  | 520.3  | 449.1  | 408.5  | 389.8  | 391.5  |
| 67.5° | 19457.1 | 13220.0 | 1900.0 | 1232.2 | 867.8  | 598.3  | 501.7  | 433.9  | 388.1  | 359.3  | 357.6  |
| 69°   | 17726.7 | 11406.5 | 1757.6 | 1191.5 | 827.1  | 567.8  | 478.0  | 416.9  | 372.9  | 342.4  | 340.7  |
| 70°   | 16331.8 | 10299.7 | 1664.4 | 1147.4 | 783.0  | 545.7  | 459.3  | 401.7  | 361.0  | 332.2  | 328.8  |
| 72.5° | 11874.3 | 6749.0  | 1422.0 | 986.4  | 645.7  | 457.6  | 396.6  | 352.5  | 322.0  | 305.1  | 301.7  |
| 75°   | 5933.7  | 3218.6  | 1154.2 | 800.0  | 494.9  | 366.1  | 325.4  | 294.9  | 279.7  | 276.3  | 274.6  |
| 77.5° | 1949.1  | 1474.5  | 825.4  | 596.6  | 367.8  | 286.4  | 262.7  | 240.7  | 237.3  | 247.5  | 244.1  |
| 80°   | 1071.2  | 857.6   | 523.7  | 394.9  | 250.8  | 210.2  | 206.8  | 194.9  | 200.0  | 216.9  | 213.6  |
| 82.5° | 545.7   | 445.8   | 323.7  | 237.3  | 169.5  | 150.8  | 164.4  | 157.6  | 164.4  | 179.7  | 178.0  |
| 85°   | 269.5   | 244.1   | 205.1  | 144.1  | 111.9  | 96.6   | 116.9  | 122.0  | 125.4  | 137.3  | 137.3  |
| 87.5° | 155.9   | 144.1   | 108.5  | 67.8   | 55.9   | 50.8   | 67.8   | 66.1   | 78.0   | 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)