

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: P191965

Luminaire Tested: **GAN-AF-07-LED-U-SL3-7050-800-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191965  
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-07-LED-U-SL3-7050-800-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 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: 34019 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 295  
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

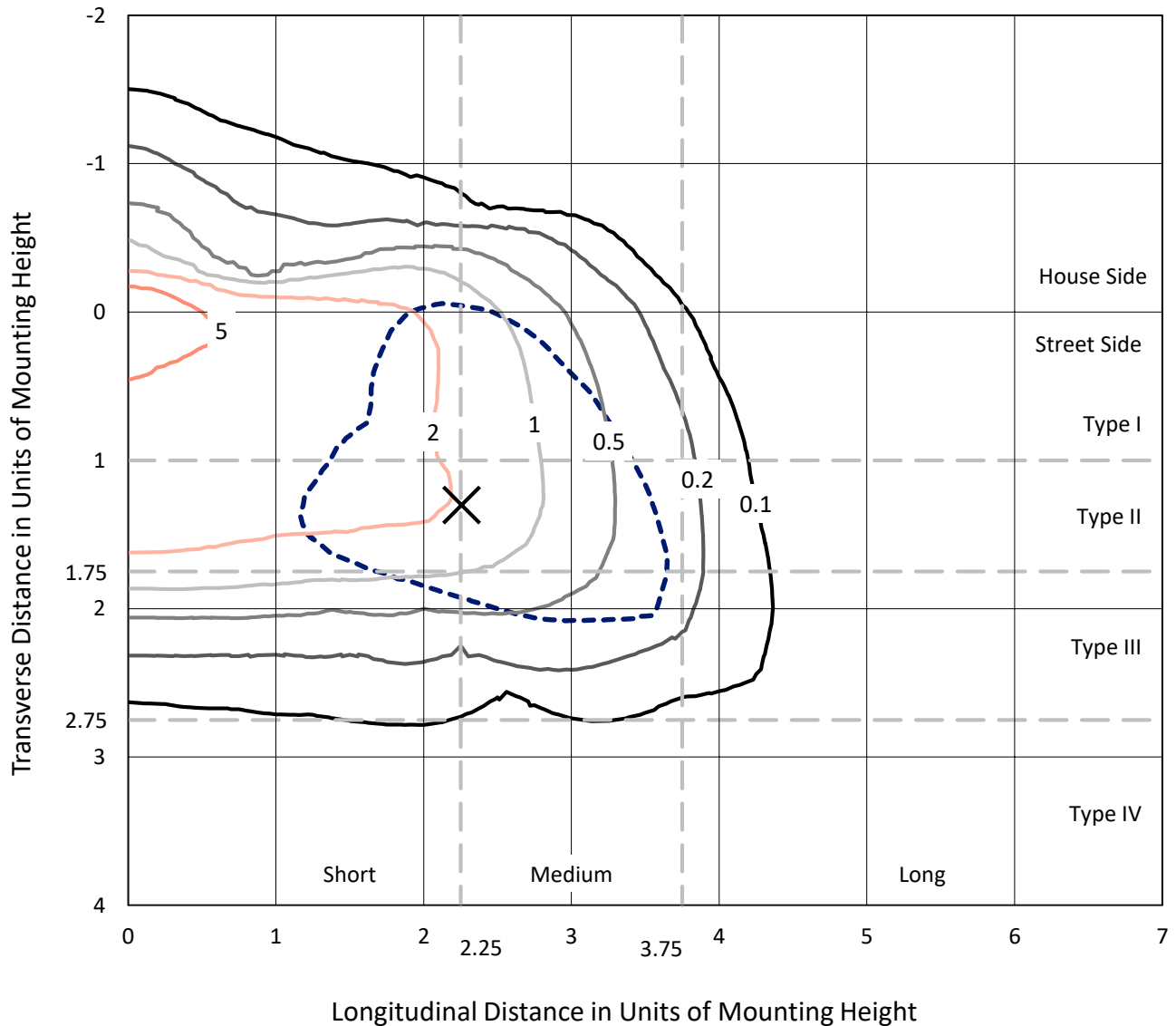


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

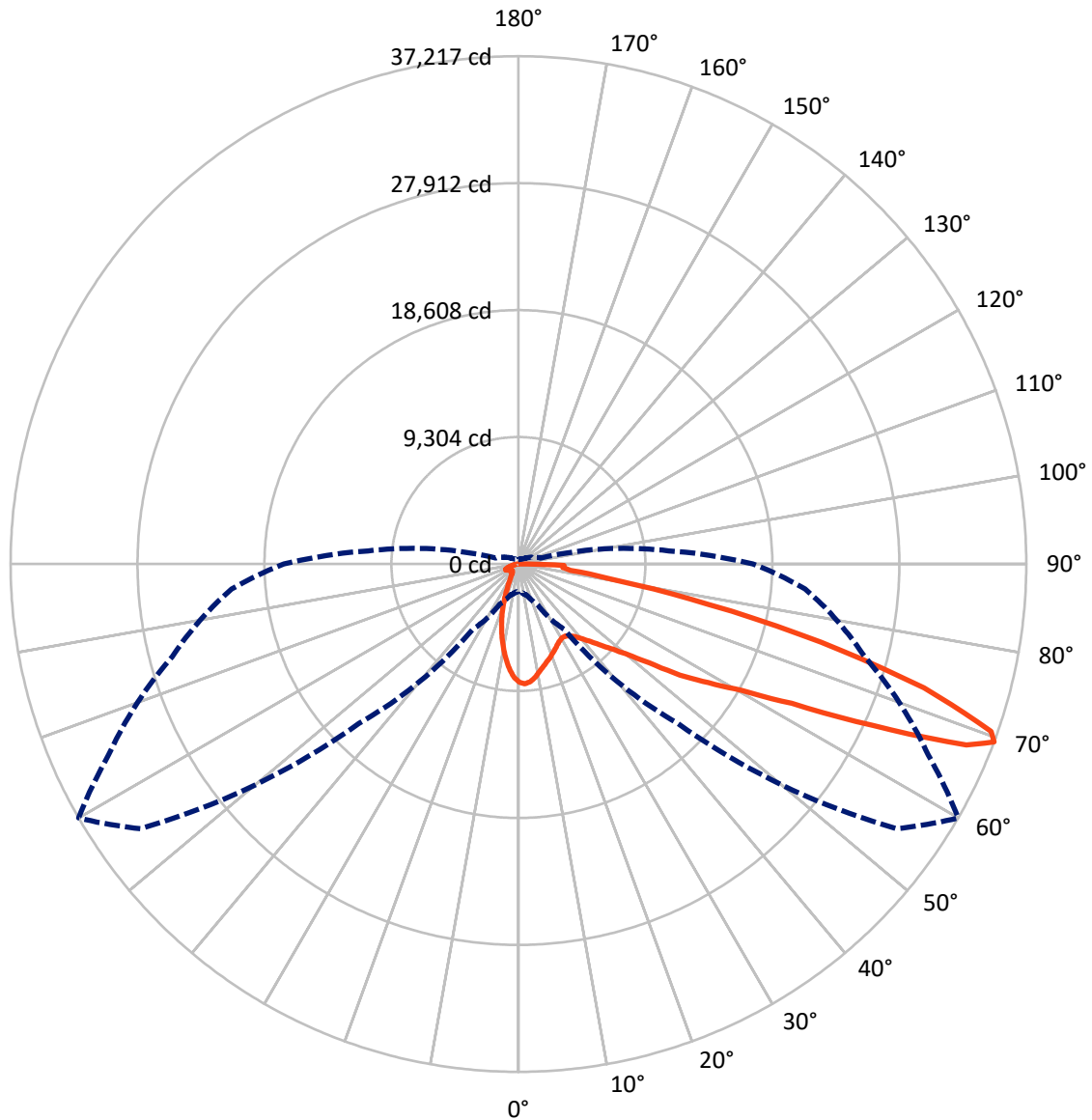


Based on 30 foot mounting height. Maximum calculated value = 9.6 fc  
 Type III - Medium - Non-Cutoff

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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    | 4839.8   | 0.0    | 4839.8  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 29179.2  | 0.0    | 29179.2 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 34019.0  | 0.0    | 34019.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 733.0   | 2.2       |
| 10°-20°   | 1561.6  | 4.6       |
| 20°-30°   | 1989.8  | 5.8       |
| 30°-40°   | 2735.4  | 8.0       |
| 40°-50°   | 4438.5  | 13.0      |
| 50°-60°   | 7118.2  | 20.9      |
| 60°-70°   | 9473.8  | 27.8      |
| 70°-80°   | 5115.1  | 15.0      |
| 80°-90°   | 853.5   | 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°    | 34019.0 | 100.0     |
| 0°-180°   | 34019.0 | 100.0     |

**Coefficient of Utilization**



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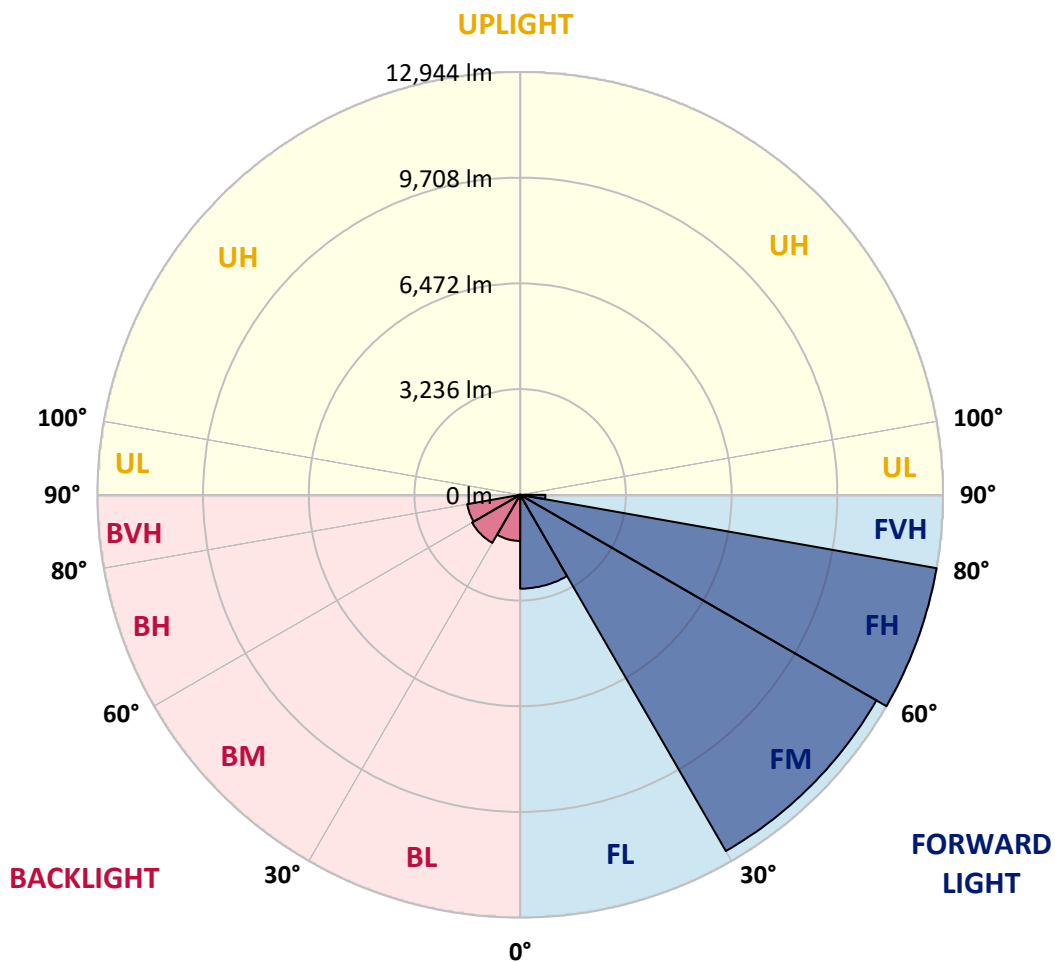
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2872.4  | 8.4       |                         |      |         |
| FM (30°-60°)   | 12591.9 | 37.0      |                         |      |         |
| FH (60°-80°)   | 12943.6 | 38.0      |                         |      | G5      |
| FVH (80°-90°)  | 771.3   | 2.3       |                         |      | G5      |
| BL (0°-30°)    | 1411.9  | 4.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 1700.3  | 5.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 1645.4  | 4.8       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 82.2    | 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°    | 8668.6  | 8668.6  | 8668.6  | 8668.6  | 8668.6  | 8668.6  | 8668.6  | 8668.6  | 8668.6  | 8668.6  | 8668.6  |
| 2.5°  | 8846.0  | 8865.8  | 8857.5  | 8852.6  | 8867.4  | 8844.4  | 8796.7  | 8781.9  | 8758.9  | 8704.7  | 8612.7  |
| 5°    | 8514.1  | 8573.2  | 8570.0  | 8614.3  | 8688.3  | 8708.0  | 8686.6  | 8689.9  | 8647.2  | 8579.8  | 8427.0  |
| 7.5°  | 7940.6  | 7965.2  | 7978.4  | 8075.3  | 8210.1  | 8318.5  | 8410.6  | 8440.1  | 8420.4  | 8362.9  | 8165.7  |
| 10°   | 7349.0  | 7368.7  | 7399.9  | 7513.3  | 7684.2  | 7833.7  | 8007.9  | 8108.2  | 8150.9  | 8141.0  | 7920.8  |
| 12.5° | 6841.2  | 6860.9  | 6902.0  | 7030.2  | 7233.9  | 7418.0  | 7671.1  | 7796.0  | 7897.8  | 7958.6  | 7722.0  |
| 15°   | 6386.0  | 6428.7  | 6468.1  | 6616.0  | 6844.5  | 7086.0  | 7372.0  | 7529.7  | 7687.5  | 7823.9  | 7546.2  |
| 17.5° | 6031.0  | 6073.7  | 6096.7  | 6231.5  | 6474.7  | 6770.5  | 7105.8  | 7291.4  | 7488.6  | 7712.1  | 7372.0  |
| 20°   | 5825.6  | 5845.3  | 5835.5  | 5911.1  | 6129.6  | 6443.5  | 6841.2  | 7056.5  | 7294.7  | 7607.0  | 7197.8  |
| 22.5° | 5768.1  | 5769.7  | 5733.6  | 5725.4  | 5866.7  | 6131.3  | 6558.5  | 6819.8  | 7112.3  | 7537.9  | 7048.2  |
| 25°   | 5907.8  | 5902.8  | 5804.2  | 5723.7  | 5738.5  | 5893.0  | 6285.7  | 6589.7  | 6959.5  | 7523.2  | 6933.2  |
| 27.5° | 6218.4  | 6233.1  | 6086.9  | 5935.7  | 5786.2  | 5781.2  | 6078.7  | 6399.1  | 6834.6  | 7590.5  | 6883.9  |
| 30°   | 6653.8  | 6678.5  | 6522.4  | 6330.1  | 6049.1  | 5817.4  | 5998.1  | 6285.7  | 6757.4  | 7730.2  | 6875.7  |
| 32.5° | 7130.4  | 7156.7  | 7038.4  | 6836.2  | 6468.1  | 6040.9  | 6054.0  | 6295.6  | 6754.1  | 7925.8  | 6931.6  |
| 35°   | 7638.2  | 7667.8  | 7607.0  | 7436.1  | 7026.9  | 6453.4  | 6267.7  | 6455.0  | 6860.9  | 8224.9  | 7081.1  |
| 37.5° | 8205.1  | 8251.2  | 8267.6  | 8104.9  | 7667.8  | 6997.3  | 6617.7  | 6757.4  | 7102.5  | 8640.6  | 7355.5  |
| 40°   | 9021.9  | 9086.0  | 9081.0  | 8847.7  | 8402.3  | 7731.9  | 7158.3  | 7194.5  | 7478.8  | 9196.1  | 7794.3  |
| 42.5° | 10586.3 | 10599.5 | 10190.3 | 9682.5  | 9210.9  | 8504.2  | 7796.0  | 7766.4  | 7998.1  | 9899.4  | 8440.1  |
| 45°   | 12576.4 | 12522.2 | 11611.8 | 10630.7 | 10055.5 | 9391.6  | 8625.8  | 8481.2  | 8657.1  | 10757.2 | 9248.7  |
| 47.5° | 14227.9 | 14103.0 | 12952.7 | 11598.6 | 10949.5 | 10356.3 | 9600.3  | 9347.3  | 9444.2  | 11730.1 | 10293.8 |
| 50°   | 14801.5 | 14707.8 | 13754.7 | 12403.8 | 11795.8 | 11532.9 | 10800.0 | 10441.7 | 10468.0 | 12890.3 | 11518.1 |
| 52.5° | 14678.2 | 14665.1 | 14029.1 | 12934.6 | 12587.9 | 12768.7 | 12499.2 | 12014.4 | 11758.0 | 14178.6 | 12839.3 |
| 55°   | 14387.3 | 14415.3 | 14185.2 | 13552.5 | 13493.4 | 13961.7 | 14719.3 | 14361.0 | 13564.0 | 15478.5 | 14204.9 |
| 57.5° | 13376.7 | 13449.0 | 13955.1 | 14329.8 | 14951.0 | 15647.8 | 16507.2 | 16405.3 | 15508.1 | 16883.6 | 15828.5 |
| 60°   | 10776.9 | 10944.6 | 12302.0 | 14178.6 | 16451.4 | 18630.4 | 19015.0 | 18778.3 | 17513.0 | 18627.1 | 17973.1 |
| 62.5° | 7551.1  | 7725.3  | 9339.0  | 12275.7 | 16204.9 | 21999.2 | 23498.0 | 22477.4 | 20392.1 | 21195.7 | 20748.7 |
| 65°   | 4042.6  | 4126.4  | 5358.9  | 8517.4  | 13680.7 | 22694.4 | 30049.9 | 28497.0 | 24950.7 | 24362.3 | 23123.3 |
| 67.5° | 2230.0  | 2276.0  | 2747.6  | 4300.6  | 8762.2  | 19984.5 | 34224.0 | 35397.3 | 30648.1 | 26470.7 | 22691.1 |
| 69°   | 2016.4  | 2059.1  | 2368.0  | 3257.1  | 5863.4  | 16523.7 | 33816.4 | 37216.5 | 33145.9 | 26262.0 | 21093.8 |
| 70°   | 1972.0  | 2011.4  | 2289.2  | 3002.4  | 4745.9  | 13619.9 | 32450.8 | 36751.4 | 33740.8 | 25514.3 | 19700.2 |
| 72.5° | 1774.8  | 1817.5  | 2087.0  | 2696.7  | 4055.7  | 6790.2  | 25704.9 | 31073.7 | 30633.3 | 22122.5 | 14942.8 |
| 75°   | 1654.8  | 1694.3  | 2151.1  | 2640.8  | 3883.2  | 4297.3  | 16946.0 | 22901.4 | 22518.5 | 15475.2 | 8057.2  |
| 77.5° | 708.3   | 705.0   | 997.5   | 2234.9  | 3940.7  | 4160.9  | 9105.7  | 14306.8 | 13053.0 | 6614.4  | 2313.8  |
| 80°   | 473.3   | 465.1   | 473.3   | 657.3   | 3613.7  | 4183.9  | 4770.6  | 7261.9  | 5485.4  | 1686.1  | 1140.5  |
| 82.5° | 407.5   | 401.0   | 415.8   | 401.0   | 1270.3  | 4775.5  | 4055.7  | 3861.8  | 2608.0  | 958.1   | 565.3   |
| 85°   | 274.4   | 262.9   | 358.2   | 359.9   | 599.8   | 4243.1  | 4568.5  | 3262.0  | 2110.0  | 568.6   | 279.4   |
| 87.5° | 131.5   | 128.2   | 208.7   | 254.7   | 351.7   | 1723.9  | 5125.5  | 3342.5  | 2128.1  | 290.9   | 133.1   |
| 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°    | 8668.6  | 8668.6  | 8668.6 | 8668.6 | 8668.6 | 8668.6 | 8668.6 | 8668.6 | 8668.6 | 8668.6 | 8668.6 |
| 2.5°  | 8584.7  | 8517.4  | 8451.6 | 8372.8 | 8290.6 | 8198.6 | 8152.6 | 8106.5 | 8095.0 | 8081.9 | 8035.9 |
| 5°    | 8348.1  | 8252.8  | 8088.5 | 7907.7 | 7717.1 | 7531.4 | 7390.0 | 7301.3 | 7233.9 | 7199.4 | 7138.6 |
| 7.5°  | 8042.4  | 7902.8  | 7615.2 | 7303.0 | 6982.5 | 6690.0 | 6436.9 | 6277.5 | 6126.3 | 6055.7 | 5975.1 |
| 10°   | 7751.6  | 7542.9  | 7095.9 | 6635.8 | 6175.6 | 5733.6 | 5317.8 | 5023.7 | 4762.4 | 4616.1 | 4512.6 |
| 12.5° | 7501.8  | 7215.9  | 6596.3 | 5973.5 | 5342.5 | 4713.1 | 4090.2 | 3600.5 | 3191.3 | 2976.1 | 2866.0 |
| 15°   | 7258.6  | 6913.5  | 6121.4 | 5331.0 | 4520.8 | 3664.6 | 2846.2 | 2290.8 | 1952.3 | 1817.5 | 1771.5 |
| 17.5° | 7038.4  | 6596.3  | 5644.8 | 4683.5 | 3672.8 | 2637.5 | 1912.8 | 1607.2 | 1477.4 | 1433.0 | 1418.2 |
| 20°   | 6800.1  | 6275.9  | 5150.2 | 4006.4 | 2788.7 | 1843.8 | 1493.8 | 1359.0 | 1306.4 | 1293.3 | 1286.7 |
| 22.5° | 6570.0  | 5960.4  | 4676.9 | 3281.7 | 2003.2 | 1423.1 | 1283.4 | 1227.6 | 1219.3 | 1230.9 | 1230.9 |
| 25°   | 6374.5  | 5677.7  | 4165.8 | 2524.2 | 1470.8 | 1198.0 | 1148.7 | 1135.5 | 1166.8 | 1209.5 | 1217.7 |
| 27.5° | 6228.2  | 5446.0  | 3621.9 | 1863.5 | 1171.7 | 1041.9 | 1040.2 | 1061.6 | 1138.8 | 1221.0 | 1237.4 |
| 30°   | 6128.0  | 5225.8  | 3040.2 | 1344.2 | 982.7  | 917.0  | 943.3  | 989.3  | 1102.7 | 1219.3 | 1250.6 |
| 32.5° | 6077.0  | 5063.1  | 2433.8 | 1040.2 | 841.4  | 805.2  | 849.6  | 905.5  | 1017.2 | 1125.7 | 1166.8 |
| 35°   | 6116.5  | 4943.1  | 1861.9 | 867.7  | 742.8  | 714.8  | 760.9  | 815.1  | 880.8  | 926.8  | 958.1  |
| 37.5° | 6264.4  | 4895.5  | 1405.0 | 777.3  | 675.4  | 649.1  | 685.3  | 716.5  | 742.8  | 755.9  | 770.7  |
| 40°   | 6583.2  | 4946.4  | 1125.7 | 731.3  | 637.6  | 604.7  | 619.5  | 631.0  | 647.5  | 660.6  | 667.2  |
| 42.5° | 7053.2  | 5099.2  | 1009.0 | 713.2  | 617.9  | 570.2  | 566.9  | 571.9  | 593.2  | 617.9  | 622.8  |
| 45°   | 7710.5  | 5368.8  | 1000.8 | 724.7  | 608.0  | 542.3  | 527.5  | 534.1  | 566.9  | 604.7  | 611.3  |
| 47.5° | 8550.2  | 5779.6  | 1066.5 | 759.2  | 616.2  | 527.5  | 502.9  | 511.1  | 552.2  | 603.1  | 611.3  |
| 50°   | 9567.5  | 6353.1  | 1176.6 | 810.2  | 652.4  | 530.8  | 494.6  | 499.6  | 542.3  | 598.2  | 606.4  |
| 52.5° | 10768.7 | 7166.6  | 1296.6 | 859.5  | 690.2  | 552.2  | 501.2  | 489.7  | 529.2  | 578.5  | 588.3  |
| 55°   | 12104.8 | 8210.1  | 1419.8 | 903.8  | 709.9  | 578.5  | 514.4  | 476.6  | 504.5  | 545.6  | 553.8  |
| 57.5° | 13744.8 | 9669.3  | 1633.5 | 946.6  | 723.1  | 596.5  | 527.5  | 463.4  | 473.3  | 502.9  | 509.4  |
| 60°   | 15964.9 | 11733.4 | 2009.8 | 1017.2 | 752.6  | 603.1  | 525.9  | 451.9  | 442.1  | 458.5  | 461.8  |
| 62.5° | 18625.5 | 13974.9 | 2323.7 | 1106.0 | 801.9  | 608.0  | 516.0  | 443.7  | 415.8  | 415.8  | 419.0  |
| 65°   | 20204.7 | 14574.7 | 2149.5 | 1179.9 | 843.0  | 603.1  | 504.5  | 435.5  | 396.0  | 378.0  | 379.6  |
| 67.5° | 18865.4 | 12818.0 | 1842.2 | 1194.7 | 841.4  | 580.1  | 486.4  | 420.7  | 376.3  | 348.4  | 346.7  |
| 69°   | 17187.6 | 11059.6 | 1704.1 | 1155.3 | 801.9  | 550.5  | 463.4  | 404.3  | 361.5  | 332.0  | 330.3  |
| 70°   | 15835.1 | 9986.5  | 1613.7 | 1112.5 | 759.2  | 529.2  | 445.3  | 389.5  | 350.0  | 322.1  | 318.8  |
| 72.5° | 11513.2 | 6543.7  | 1378.8 | 956.4  | 626.1  | 443.7  | 384.5  | 341.8  | 312.2  | 295.8  | 292.5  |
| 75°   | 5753.3  | 3120.7  | 1119.1 | 775.7  | 479.9  | 355.0  | 315.5  | 285.9  | 271.1  | 267.9  | 266.2  |
| 77.5° | 1889.8  | 1429.7  | 800.3  | 578.5  | 356.6  | 277.7  | 254.7  | 233.4  | 230.1  | 239.9  | 236.6  |
| 80°   | 1038.6  | 831.5   | 507.8  | 382.9  | 243.2  | 203.8  | 200.5  | 189.0  | 193.9  | 210.3  | 207.1  |
| 82.5° | 529.2   | 432.2   | 313.9  | 230.1  | 164.3  | 146.3  | 159.4  | 152.8  | 159.4  | 174.2  | 172.5  |
| 85°   | 261.3   | 236.6   | 198.8  | 139.7  | 108.5  | 93.7   | 113.4  | 118.3  | 121.6  | 133.1  | 133.1  |
| 87.5° | 151.2   | 139.7   | 105.2  | 65.7   | 54.2   | 49.3   | 65.7   | 64.1   | 75.6   | 82.2   | 80.5   |
| 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)