

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: P648922

Luminaire Tested: **GLAN-SA5C-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5C-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27517.8 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

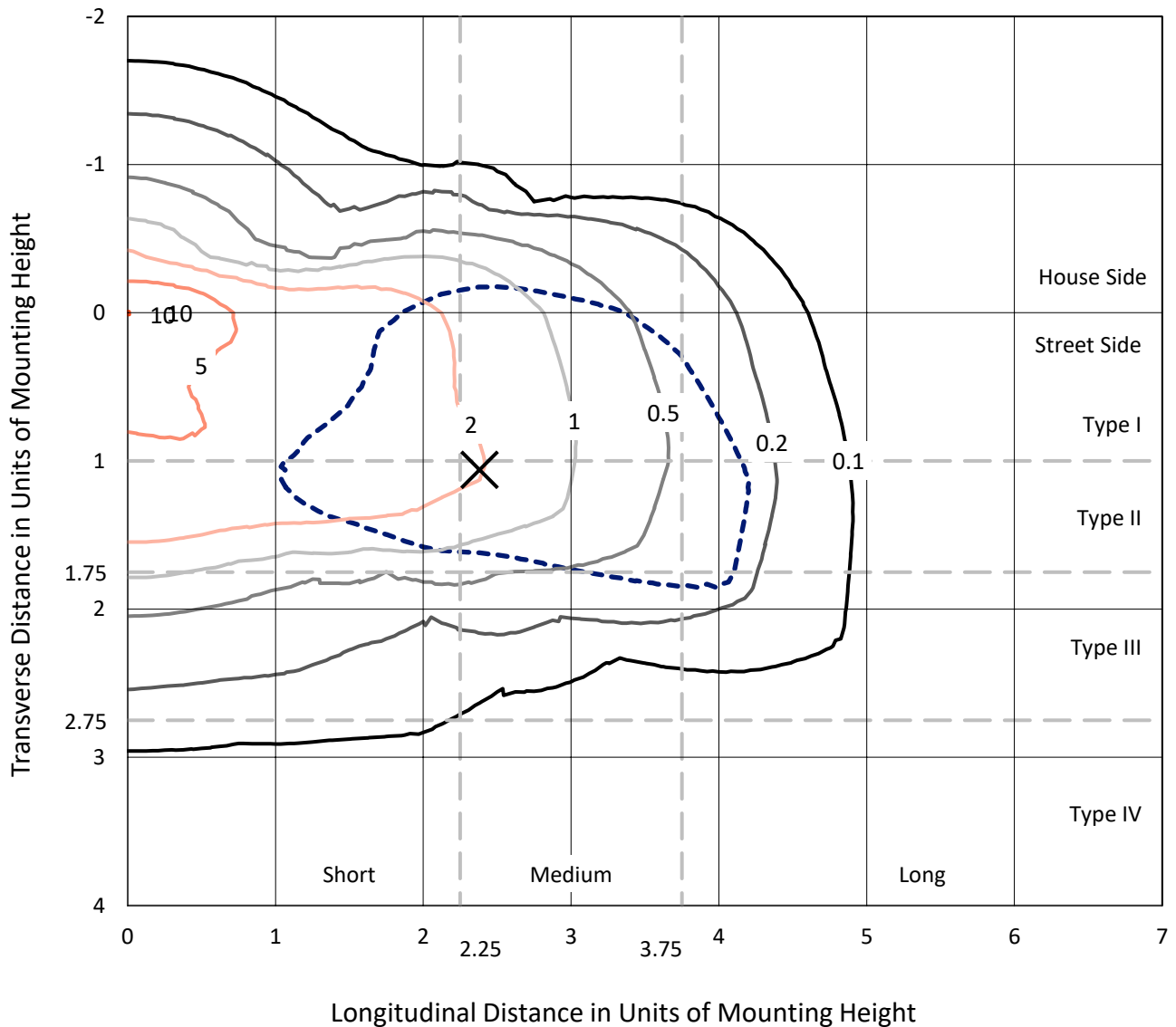
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

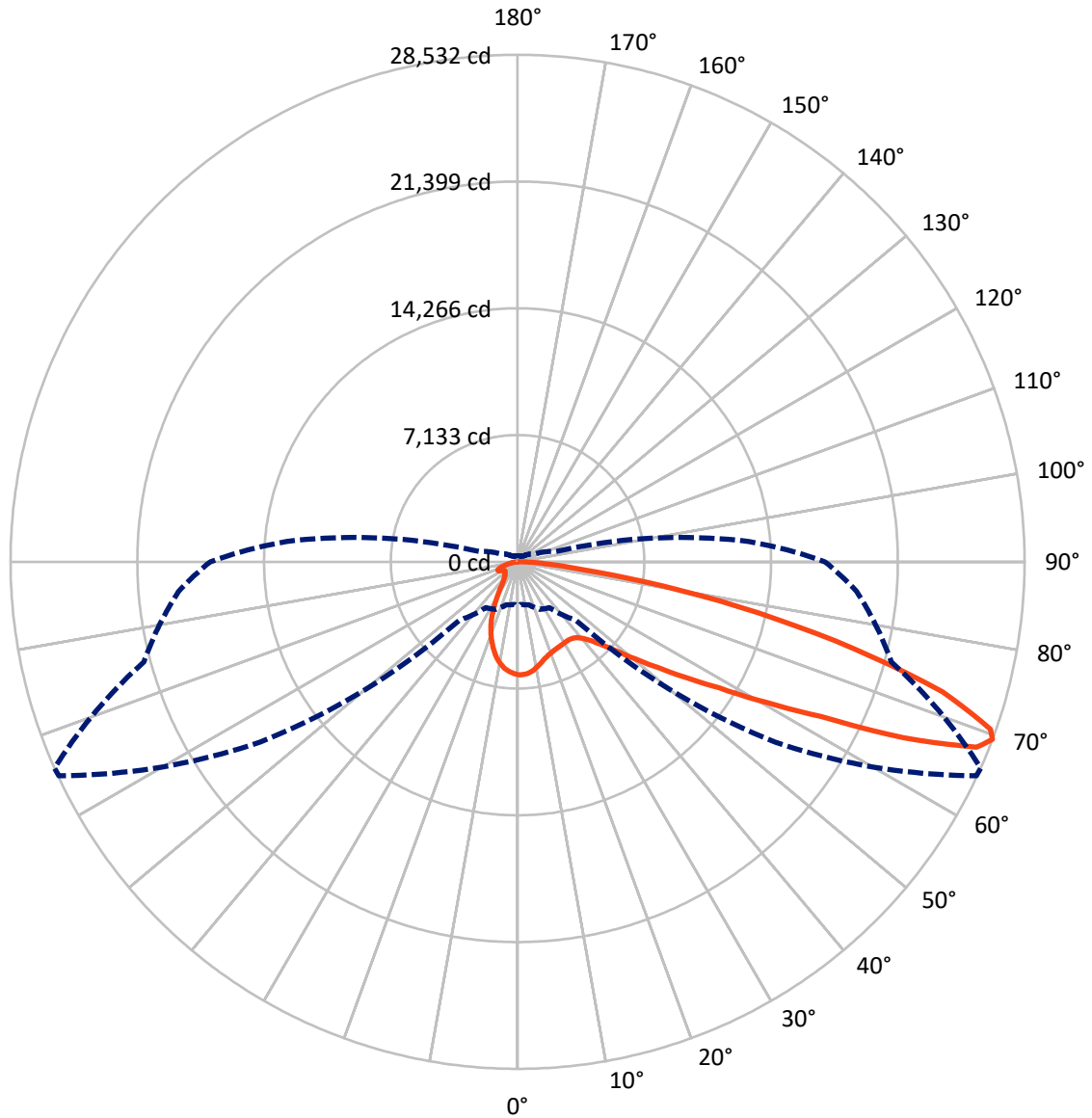
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5175.1   | 0.0    | 5175.1  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 22342.7  | 0.0    | 22342.7 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 27517.8  | 0.0    | 27517.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 551.8   | 2.0       |
| 10°-20°   | 1308.9  | 4.8       |
| 20°-30°   | 1781.9  | 6.5       |
| 30°-40°   | 2394.5  | 8.7       |
| 40°-50°   | 3575.3  | 13.0      |
| 50°-60°   | 5687.2  | 20.7      |
| 60°-70°   | 6994.9  | 25.4      |
| 70°-80°   | 4551.2  | 16.5      |
| 80°-90°   | 672.1   | 2.4       |
| 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°    | 27517.8 | 100.0     |
| 0°-180°   | 27517.8 | 100.0     |

**Coefficient of Utilization**

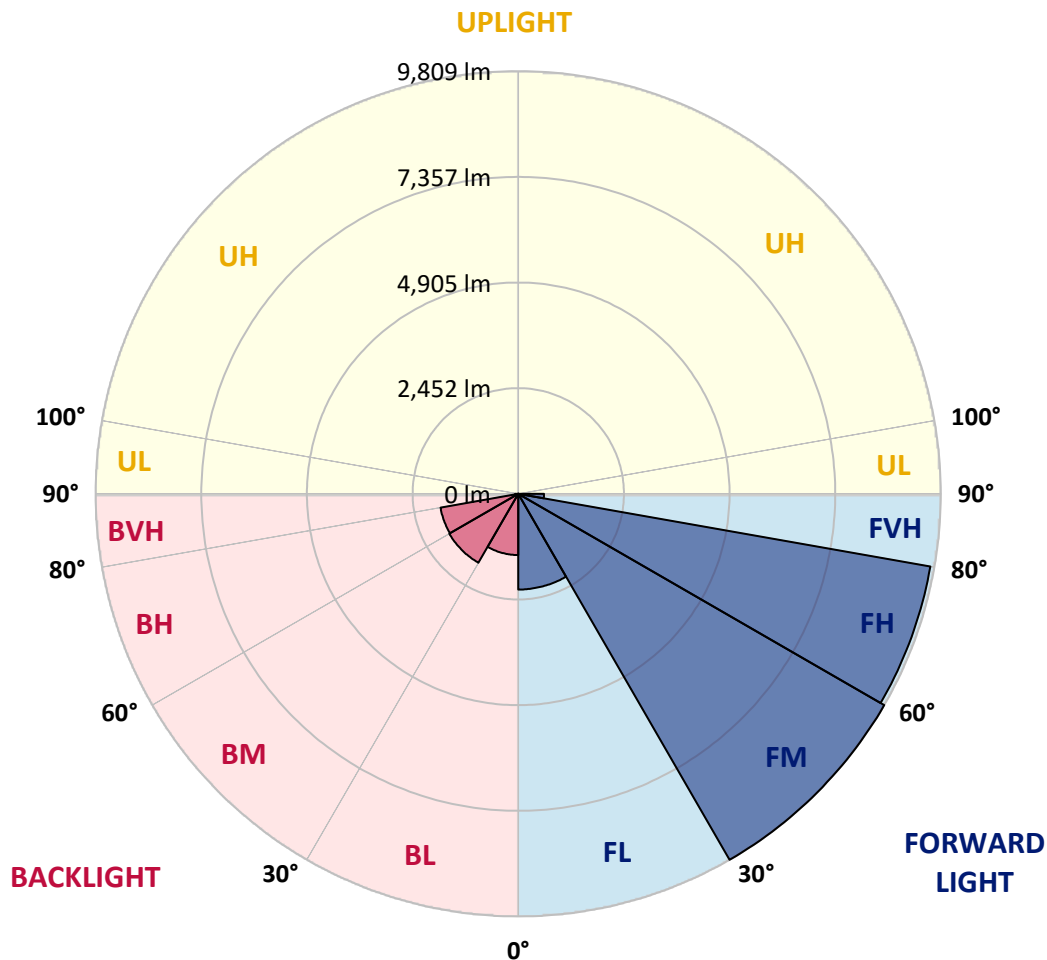


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 2222.0 | 8.1       |                         |      |          |
| FM (30°-60°)   | 9809.2 | 35.6      |                         |      |          |
| FH (60°-80°)   | 9713.9 | 35.3      |                         |      | G4/12000 |
| FVH (80°-90°)  | 597.5  | 2.2       |                         |      | G4/750   |
| BL (0°-30°)    | 1420.6 | 5.2       | B3/2500                 |      |          |
| BM (30°-60°)   | 1847.7 | 6.7       | B2/2500                 |      |          |
| BH (60°-80°)   | 1832.2 | 6.7       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 74.6   | 0.3       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6354.6 | 6354.6 | 6354.6 | 6354.6  | 6354.6  | 6354.6  | 6354.6  | 6354.6  | 6354.6  | 6354.6  | 6354.6  |
| 2.5°  | 6132.1 | 6156.5 | 6183.9 | 6214.4  | 6272.3  | 6304.3  | 6327.2  | 6353.1  | 6356.2  | 6369.9  | 6359.2  |
| 5°    | 5679.6 | 5708.5 | 5749.6 | 5807.5  | 5894.4  | 6030.0  | 6170.2  | 6284.5  | 6298.2  | 6362.3  | 6380.5  |
| 7.5°  | 5301.6 | 5318.4 | 5351.9 | 5444.8  | 5568.3  | 5719.2  | 5923.3  | 6155.0  | 6188.5  | 6340.9  | 6394.2  |
| 10°   | 4993.8 | 5010.6 | 5050.2 | 5146.2  | 5268.1  | 5457.0  | 5681.1  | 5985.8  | 6013.3  | 6275.4  | 6397.3  |
| 12.5° | 4763.7 | 4778.9 | 4821.6 | 4916.1  | 5056.2  | 5233.0  | 5479.9  | 5803.0  | 5842.6  | 6188.5  | 6368.3  |
| 15°   | 4588.5 | 4617.4 | 4652.4 | 4730.2  | 4877.9  | 5048.6  | 5287.9  | 5635.3  | 5667.4  | 6097.1  | 6348.5  |
| 17.5° | 4513.8 | 4527.5 | 4551.9 | 4623.5  | 4731.7  | 4899.3  | 5140.1  | 5504.3  | 5542.4  | 6033.1  | 6343.9  |
| 20°   | 4516.8 | 4530.5 | 4535.1 | 4574.7  | 4652.4  | 4797.2  | 5034.9  | 5400.7  | 5446.4  | 5976.7  | 6351.5  |
| 22.5° | 4620.4 | 4622.0 | 4605.2 | 4591.5  | 4622.0  | 4742.3  | 4960.2  | 5322.9  | 5376.3  | 5952.3  | 6357.6  |
| 25°   | 4780.4 | 4807.9 | 4783.5 | 4719.5  | 4663.1  | 4721.0  | 4931.3  | 5280.2  | 5330.6  | 5917.3  | 6350.1  |
| 27.5° | 5039.5 | 5044.1 | 5024.3 | 4937.4  | 4791.1  | 4748.4  | 4919.1  | 5248.3  | 5291.0  | 5891.4  | 6311.9  |
| 30°   | 5387.0 | 5373.3 | 5354.9 | 5258.9  | 5028.8  | 4853.6  | 4945.0  | 5219.3  | 5263.5  | 5853.2  | 6266.2  |
| 32.5° | 5739.0 | 5781.6 | 5764.8 | 5652.1  | 5353.4  | 5057.8  | 5028.8  | 5216.3  | 5252.8  | 5824.3  | 6215.9  |
| 35°   | 6112.3 | 6132.1 | 6211.4 | 6153.4  | 5847.1  | 5388.4  | 5185.8  | 5263.5  | 5292.5  | 5825.8  | 6180.9  |
| 37.5° | 6404.9 | 6458.3 | 6644.1 | 6694.4  | 6406.4  | 5825.8  | 5440.3  | 5397.6  | 5409.8  | 5900.5  | 6194.6  |
| 40°   | 6758.5 | 6849.8 | 7089.1 | 7294.8  | 7105.9  | 6394.2  | 5873.0  | 5646.0  | 5661.2  | 6080.3  | 6284.5  |
| 42.5° | 7206.5 | 7270.5 | 7592.0 | 7870.9  | 7840.4  | 7145.5  | 6397.3  | 6052.9  | 6060.5  | 6438.5  | 6535.9  |
| 45°   | 7730.7 | 7822.1 | 8183.3 | 8602.4  | 8674.0  | 7995.8  | 7154.7  | 6668.5  | 6664.0  | 6994.6  | 7005.3  |
| 47.5° | 8401.2 | 8457.6 | 8815.7 | 9272.8  | 9562.4  | 9064.1  | 8073.6  | 7552.4  | 7503.6  | 7805.3  | 7718.5  |
| 50°   | 9018.4 | 9106.8 | 9378.0 | 9877.9  | 10598.6 | 10315.2 | 9282.0  | 8698.3  | 8584.0  | 8866.0  | 8719.7  |
| 52.5° | 9277.5 | 9370.4 | 9599.0 | 10219.2 | 11487.1 | 11933.5 | 10816.6 | 10065.3 | 9874.8  | 10091.2 | 10037.8 |
| 55°   | 8827.9 | 8948.3 | 9161.6 | 9915.9  | 11877.2 | 13800.3 | 12886.0 | 11645.6 | 11506.9 | 11413.9 | 11429.1 |
| 57.5° | 7619.5 | 7733.8 | 8021.8 | 8853.8  | 11410.9 | 15155.0 | 15840.8 | 13676.9 | 13379.7 | 12951.5 | 13024.7 |
| 60°   | 5799.9 | 5871.6 | 6020.9 | 6942.9  | 10028.7 | 15507.1 | 19196.4 | 16244.7 | 16055.6 | 14483.0 | 14534.8 |
| 62.5° | 4119.0 | 4199.9 | 4303.4 | 4763.7  | 7342.1  | 14515.0 | 21823.6 | 19830.3 | 19155.3 | 16069.4 | 16019.1 |
| 65°   | 3344.9 | 3290.1 | 3415.1 | 3629.9  | 4308.1  | 11249.4 | 22414.9 | 24807.4 | 23877.8 | 18158.6 | 17460.7 |
| 67.5° | 2750.6 | 2692.7 | 2816.1 | 3198.6  | 3276.4  | 6529.8  | 20284.5 | 28038.1 | 27852.1 | 20430.7 | 18925.2 |
| 69°   | 2435.2 | 2404.7 | 2512.9 | 2948.7  | 3145.3  | 4637.2  | 17671.0 | 28487.6 | 28531.7 | 21770.3 | 19150.7 |
| 70°   | 2194.4 | 2206.6 | 2311.7 | 2822.2  | 3085.9  | 3823.5  | 15103.3 | 27867.4 | 28242.2 | 22439.2 | 18906.9 |
| 72.5° | 1615.3 | 1641.2 | 1787.5 | 2337.6  | 3029.5  | 3244.4  | 8987.9  | 24341.0 | 25003.9 | 22478.9 | 17296.2 |
| 75°   | 1129.2 | 1117.0 | 1246.5 | 1760.1  | 2861.9  | 3215.4  | 5278.8  | 18824.6 | 19575.9 | 19429.6 | 14533.3 |
| 77.5° | 739.1  | 758.9  | 862.6  | 1243.5  | 2407.7  | 3191.0  | 3441.0  | 13355.3 | 13843.0 | 12994.2 | 8596.2  |
| 80°   | 521.2  | 519.7  | 577.5  | 848.8   | 1786.0  | 3066.1  | 2817.7  | 8418.0  | 8294.6  | 5106.6  | 2549.4  |
| 82.5° | 298.7  | 320.0  | 387.0  | 597.4   | 1194.7  | 2698.8  | 2592.1  | 4026.1  | 3675.6  | 1455.3  | 861.0   |
| 85°   | 166.1  | 173.7  | 230.1  | 361.2   | 698.0   | 2032.9  | 2262.9  | 1831.8  | 1728.1  | 608.0   | 370.3   |
| 87.5° | 53.3   | 57.9   | 96.0   | 182.8   | 317.0   | 960.0   | 1281.6  | 845.8   | 780.3   | 219.5   | 149.3   |
| 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°    | 6354.6  | 6354.6  | 6354.6 | 6354.6 | 6354.6 | 6354.6 | 6354.6 | 6354.6 | 6354.6 | 6354.6 | 6354.6 |
| 2.5°  | 6363.8  | 6382.1  | 6333.3 | 6286.0 | 6243.4 | 6183.9 | 6130.6 | 6086.4 | 6056.0 | 6051.3 | 6036.1 |
| 5°    | 6385.1  | 6386.6  | 6293.7 | 6168.7 | 6046.8 | 5912.7 | 5774.0 | 5674.9 | 5582.0 | 5530.2 | 5504.3 |
| 7.5°  | 6400.3  | 6386.6  | 6219.0 | 6016.3 | 5781.6 | 5537.8 | 5294.0 | 5098.9 | 4948.1 | 4888.7 | 4911.5 |
| 10°   | 6394.2  | 6351.5  | 6106.2 | 5781.6 | 5440.3 | 5076.0 | 4725.6 | 4451.3 | 4199.9 | 4070.3 | 4073.3 |
| 12.5° | 6360.7  | 6290.6  | 5938.6 | 5518.0 | 5016.6 | 4529.0 | 3992.6 | 3622.3 | 3331.2 | 3159.0 | 3105.7 |
| 15°   | 6331.7  | 6209.8  | 5742.0 | 5159.9 | 4536.6 | 3840.2 | 3186.4 | 2729.3 | 2485.5 | 2349.9 | 2348.3 |
| 17.5° | 6301.3  | 6132.1  | 5527.1 | 4780.4 | 3985.0 | 3088.9 | 2403.2 | 2054.2 | 1939.9 | 1953.7 | 1930.8 |
| 20°   | 6269.2  | 6040.7  | 5303.1 | 4358.3 | 3313.0 | 2304.1 | 1799.7 | 1658.0 | 1690.0 | 1752.4 | 1761.6 |
| 22.5° | 6232.7  | 5943.1  | 5062.3 | 3893.5 | 2605.8 | 1734.2 | 1459.9 | 1438.5 | 1520.8 | 1618.4 | 1632.1 |
| 25°   | 6176.3  | 5821.3  | 4759.1 | 3407.4 | 2010.0 | 1397.4 | 1278.6 | 1293.8 | 1374.6 | 1456.8 | 1466.0 |
| 27.5° | 6097.1  | 5670.4  | 4452.8 | 2800.9 | 1510.2 | 1199.3 | 1168.8 | 1188.6 | 1228.3 | 1278.6 | 1290.7 |
| 30°   | 5990.4  | 5499.7  | 4100.8 | 2276.7 | 1210.0 | 1100.3 | 1088.1 | 1098.7 | 1121.6 | 1142.9 | 1149.0 |
| 32.5° | 5883.7  | 5335.1  | 3745.7 | 1743.3 | 1078.9 | 1034.7 | 1022.5 | 1022.5 | 1022.5 | 1025.6 | 1027.1 |
| 35°   | 5784.6  | 5179.7  | 3364.7 | 1357.8 | 1010.3 | 982.9  | 966.1  | 947.8  | 944.8  | 934.1  | 934.1  |
| 37.5° | 5729.8  | 5038.0  | 2959.4 | 1136.8 | 960.0  | 940.2  | 917.4  | 886.9  | 870.1  | 871.6  | 868.6  |
| 40°   | 5740.5  | 4945.0  | 2590.6 | 1011.9 | 918.9  | 897.6  | 862.6  | 827.5  | 816.8  | 816.8  | 813.8  |
| 42.5° | 5860.9  | 4914.6  | 2237.0 | 946.3  | 879.3  | 854.9  | 810.7  | 778.7  | 772.6  | 771.1  | 774.2  |
| 45°   | 6138.3  | 4989.2  | 1920.1 | 903.7  | 845.8  | 809.2  | 765.0  | 736.0  | 729.9  | 729.9  | 728.4  |
| 47.5° | 6679.2  | 5231.5  | 1693.0 | 876.3  | 821.4  | 774.2  | 728.4  | 699.5  | 688.8  | 685.8  | 685.8  |
| 50°   | 7520.4  | 5757.2  | 1523.9 | 851.8  | 790.9  | 742.1  | 694.9  | 661.4  | 644.6  | 643.1  | 641.6  |
| 52.5° | 8689.2  | 6577.1  | 1458.3 | 833.6  | 757.4  | 708.6  | 656.8  | 624.8  | 603.5  | 598.9  | 595.9  |
| 55°   | 10056.1 | 7721.6  | 1548.3 | 819.9  | 722.3  | 670.5  | 617.2  | 583.6  | 563.8  | 554.7  | 553.2  |
| 57.5° | 11639.5 | 9096.1  | 1889.6 | 801.6  | 690.3  | 629.4  | 577.5  | 544.0  | 522.7  | 512.0  | 509.0  |
| 60°   | 13061.2 | 10508.7 | 2485.5 | 790.9  | 662.9  | 585.1  | 531.8  | 501.4  | 481.5  | 470.9  | 469.3  |
| 62.5° | 14623.2 | 11855.9 | 3197.1 | 819.9  | 650.7  | 542.5  | 489.1  | 461.7  | 445.0  | 434.3  | 434.3  |
| 65°   | 16291.9 | 13204.5 | 3668.0 | 917.4  | 669.0  | 509.0  | 443.4  | 420.6  | 405.4  | 397.8  | 396.2  |
| 67.5° | 17416.5 | 13670.8 | 3021.8 | 1018.0 | 714.7  | 472.4  | 399.3  | 381.0  | 371.8  | 364.2  | 364.2  |
| 69°   | 17294.6 | 13081.0 | 2229.4 | 1043.9 | 728.4  | 454.1  | 374.9  | 361.2  | 349.0  | 345.9  | 342.9  |
| 70°   | 16909.0 | 12409.0 | 1868.3 | 1027.1 | 717.8  | 437.4  | 359.6  | 342.9  | 332.2  | 329.2  | 327.6  |
| 72.5° | 15060.6 | 10761.7 | 1391.3 | 893.0  | 611.1  | 379.4  | 318.5  | 303.3  | 294.1  | 289.6  | 289.6  |
| 75°   | 12512.7 | 8795.9  | 1086.6 | 710.1  | 478.5  | 320.0  | 272.8  | 260.6  | 253.0  | 249.9  | 248.4  |
| 77.5° | 7012.9  | 4911.5  | 780.3  | 556.2  | 362.7  | 259.1  | 228.6  | 217.9  | 210.3  | 207.3  | 207.3  |
| 80°   | 1953.7  | 1403.5  | 458.7  | 367.2  | 246.9  | 196.6  | 181.3  | 173.7  | 163.0  | 155.4  | 160.0  |
| 82.5° | 736.0   | 608.0   | 262.1  | 221.0  | 157.0  | 131.1  | 126.5  | 120.4  | 115.8  | 105.2  | 105.2  |
| 85°   | 358.1   | 295.7   | 167.6  | 117.4  | 86.8   | 68.6   | 65.5   | 62.5   | 59.4   | 51.8   | 53.3   |
| 87.5° | 123.4   | 131.1   | 73.1   | 42.7   | 25.9   | 16.8   | 13.7   | 7.6    | 7.6    | 7.6    | 7.6    |
| 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)