

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: P649032

Luminaire Tested: **GLAN-SA7C-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649032  
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-SA7C-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 38272.3 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

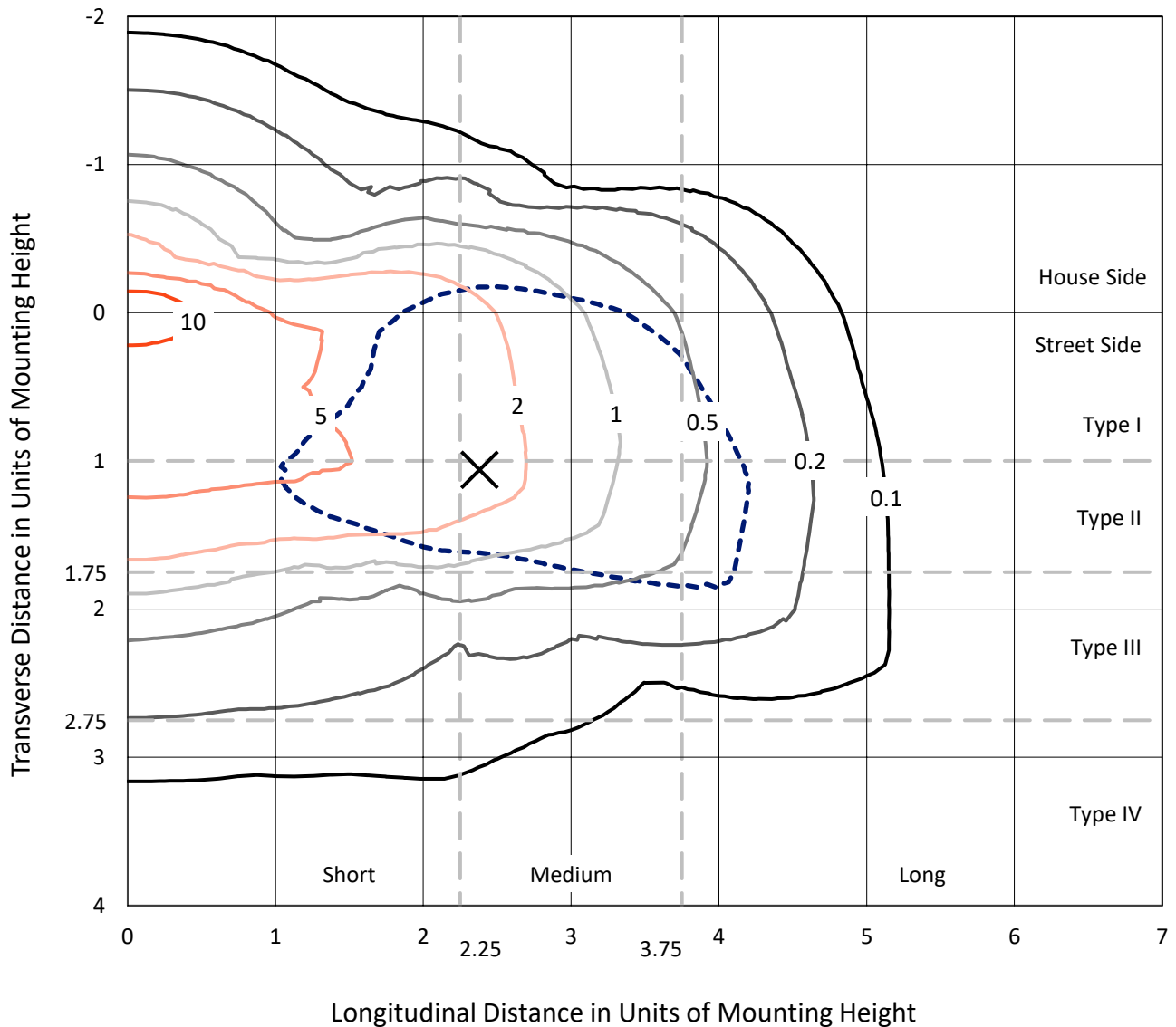
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

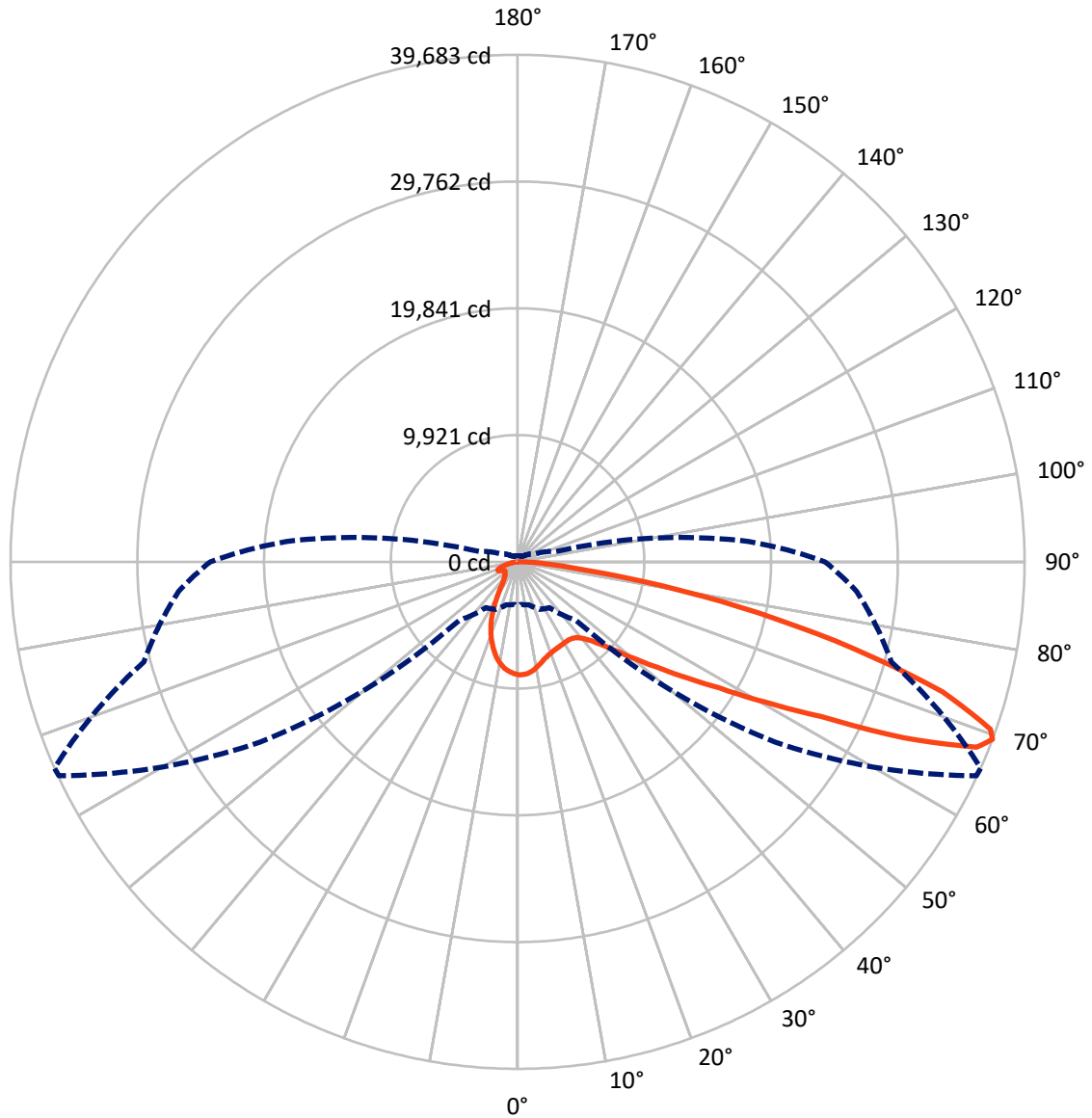
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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    | 7197.6   | 0.0    | 7197.6  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 31074.7  | 0.0    | 31074.7 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 38272.3  | 0.0    | 38272.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 767.5   | 2.0       |
| 10°-20°   | 1820.4  | 4.8       |
| 20°-30°   | 2478.3  | 6.5       |
| 30°-40°   | 3330.3  | 8.7       |
| 40°-50°   | 4972.7  | 13.0      |
| 50°-60°   | 7909.8  | 20.7      |
| 60°-70°   | 9728.7  | 25.4      |
| 70°-80°   | 6329.9  | 16.5      |
| 80°-90°   | 934.7   | 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°    | 38272.3 | 100.0     |
| 0°-180°   | 38272.3 | 100.0     |

**Coefficient of Utilization**

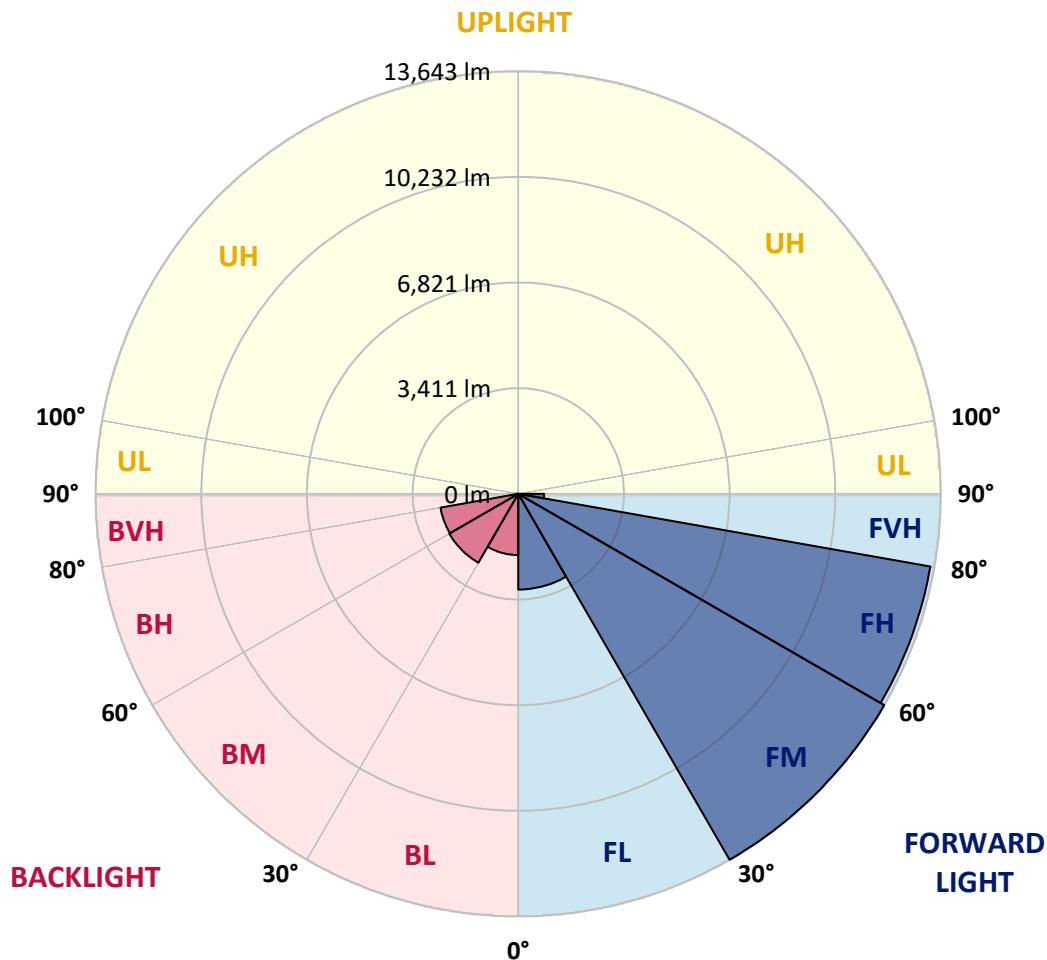


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3090.4  | 8.1       |                         |      |         |
| FM (30°-60°)   | 13642.9 | 35.6      |                         |      |         |
| FH (60°-80°)   | 13510.3 | 35.3      |                         |      | G5      |
| FVH (80°-90°)  | 831.0   | 2.2       |                         |      | G5      |
| BL (0°-30°)    | 1975.8  | 5.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 2569.8  | 6.7       | B3/5000                 |      |         |
| BH (60°-80°)   | 2548.3  | 6.7       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 103.7   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8838.1  | 8838.1  | 8838.1  | 8838.1  | 8838.1  | 8838.1  | 8838.1  | 8838.1  | 8838.1  | 8838.1  | 8838.1  |
| 2.5°  | 8528.7  | 8562.6  | 8600.8  | 8643.1  | 8723.6  | 8768.2  | 8800.0  | 8836.0  | 8840.2  | 8859.3  | 8844.5  |
| 5°    | 7899.2  | 7939.5  | 7996.7  | 8077.3  | 8198.1  | 8386.7  | 8581.7  | 8740.6  | 8759.7  | 8848.8  | 8874.1  |
| 7.5°  | 7373.6  | 7396.9  | 7443.5  | 7572.8  | 7744.5  | 7954.3  | 8238.3  | 8560.5  | 8607.1  | 8819.1  | 8893.2  |
| 10°   | 6945.4  | 6968.8  | 7023.9  | 7157.4  | 7326.9  | 7589.8  | 7901.3  | 8325.2  | 8363.4  | 8727.9  | 8897.5  |
| 12.5° | 6625.4  | 6646.6  | 6705.9  | 6837.4  | 7032.4  | 7278.2  | 7621.6  | 8070.9  | 8126.0  | 8607.1  | 8857.2  |
| 15°   | 6381.7  | 6421.9  | 6470.7  | 6578.8  | 6784.4  | 7021.8  | 7354.5  | 7837.8  | 7882.2  | 8480.0  | 8829.7  |
| 17.5° | 6277.9  | 6296.9  | 6330.8  | 6430.4  | 6580.9  | 6814.1  | 7148.9  | 7655.5  | 7708.5  | 8390.9  | 8823.3  |
| 20°   | 6282.1  | 6301.1  | 6307.5  | 6362.6  | 6470.7  | 6672.0  | 7002.7  | 7511.3  | 7574.9  | 8312.5  | 8833.9  |
| 22.5° | 6426.2  | 6428.3  | 6405.0  | 6385.9  | 6428.3  | 6595.8  | 6898.9  | 7403.3  | 7477.4  | 8278.6  | 8842.3  |
| 25°   | 6648.8  | 6686.9  | 6653.0  | 6564.0  | 6485.5  | 6566.1  | 6858.5  | 7343.9  | 7413.8  | 8229.9  | 8831.8  |
| 27.5° | 7009.0  | 7015.4  | 6987.8  | 6867.1  | 6663.6  | 6604.2  | 6841.6  | 7299.4  | 7358.7  | 8193.8  | 8778.8  |
| 30°   | 7492.3  | 7473.2  | 7447.7  | 7314.2  | 6994.2  | 6750.5  | 6877.6  | 7259.1  | 7320.6  | 8140.9  | 8715.2  |
| 32.5° | 7981.9  | 8041.2  | 8017.9  | 7861.1  | 7445.6  | 7034.5  | 6994.2  | 7254.9  | 7305.8  | 8100.5  | 8645.3  |
| 35°   | 8501.1  | 8528.7  | 8638.9  | 8558.3  | 8132.3  | 7494.4  | 7212.5  | 7320.6  | 7360.9  | 8102.6  | 8596.5  |
| 37.5° | 8908.0  | 8982.3  | 9240.8  | 9310.7  | 8910.2  | 8102.6  | 7566.4  | 7507.1  | 7524.1  | 8206.5  | 8615.6  |
| 40°   | 9399.8  | 9526.9  | 9859.7  | 10145.8 | 9883.0  | 8893.2  | 8168.4  | 7852.6  | 7873.8  | 8456.6  | 8740.6  |
| 42.5° | 10022.9 | 10111.9 | 10559.1 | 10947.0 | 10904.6 | 9938.1  | 8897.5  | 8418.5  | 8429.1  | 8954.7  | 9090.3  |
| 45°   | 10752.0 | 10879.2 | 11381.5 | 11964.3 | 12063.9 | 11120.8 | 9950.8  | 9274.7  | 9268.4  | 9728.3  | 9743.1  |
| 47.5° | 11684.6 | 11763.0 | 12261.1 | 12896.9 | 13299.6 | 12606.5 | 11228.8 | 10504.0 | 10436.2 | 10855.8 | 10735.0 |
| 50°   | 12543.0 | 12665.9 | 13043.1 | 13738.3 | 14740.8 | 14346.6 | 12909.6 | 12097.8 | 11938.9 | 12331.0 | 12127.5 |
| 52.5° | 12903.2 | 13032.6 | 13350.5 | 14213.1 | 15976.5 | 16597.5 | 15043.9 | 13999.0 | 13734.1 | 14035.0 | 13960.8 |
| 55°   | 12278.0 | 12445.5 | 12742.2 | 13791.3 | 16519.0 | 19193.8 | 17922.1 | 16196.9 | 16004.0 | 15874.7 | 15895.9 |
| 57.5° | 10597.3 | 10756.2 | 11156.8 | 12314.0 | 15870.5 | 21078.0 | 22031.7 | 19022.1 | 18608.8 | 18013.2 | 18115.0 |
| 60°   | 8066.6  | 8166.3  | 8374.0  | 9656.3  | 13948.1 | 21567.6 | 26698.8 | 22593.4 | 22330.6 | 20143.3 | 20215.3 |
| 62.5° | 5728.9  | 5841.2  | 5985.3  | 6625.4  | 10211.6 | 20187.8 | 30352.7 | 27580.5 | 26641.6 | 22349.6 | 22279.7 |
| 65°   | 4652.2  | 4575.9  | 4749.7  | 5048.5  | 5991.7  | 15645.8 | 31175.1 | 34502.6 | 33209.8 | 25255.4 | 24284.7 |
| 67.5° | 3825.6  | 3745.1  | 3916.7  | 4448.8  | 4556.8  | 9081.9  | 28212.0 | 38995.8 | 38737.3 | 28415.5 | 26321.5 |
| 69°   | 3386.9  | 3344.5  | 3495.0  | 4101.1  | 4374.5  | 6449.5  | 24577.2 | 39621.1 | 39682.5 | 30278.5 | 26635.2 |
| 70°   | 3052.0  | 3069.0  | 3215.2  | 3925.3  | 4291.9  | 5317.7  | 21005.9 | 38758.5 | 39279.8 | 31209.0 | 26296.1 |
| 72.5° | 2246.6  | 2282.7  | 2486.1  | 3251.3  | 4213.5  | 4512.4  | 12500.5 | 33854.0 | 34776.0 | 31264.1 | 24055.8 |
| 75°   | 1570.5  | 1553.6  | 1733.7  | 2448.0  | 3980.3  | 4472.0  | 7341.8  | 26181.6 | 27226.6 | 27023.1 | 20213.2 |
| 77.5° | 1027.9  | 1055.5  | 1199.6  | 1729.5  | 3348.7  | 4438.1  | 4785.7  | 18574.9 | 19253.1 | 18072.6 | 11955.9 |
| 80°   | 724.8   | 722.7   | 803.3   | 1180.5  | 2484.0  | 4264.4  | 3918.8  | 11707.9 | 11536.2 | 7102.3  | 3545.8  |
| 82.5° | 415.4   | 445.1   | 538.3   | 830.8   | 1661.7  | 3753.5  | 3605.2  | 5599.6  | 5112.1  | 2024.1  | 1197.5  |
| 85°   | 231.0   | 241.6   | 320.0   | 502.3   | 970.7   | 2827.3  | 3147.4  | 2547.6  | 2403.5  | 845.6   | 515.1   |
| 87.5° | 74.2    | 80.6    | 133.5   | 254.3   | 440.8   | 1335.2  | 1782.5  | 1176.3  | 1085.2  | 305.2   | 207.7   |
| 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°    | 8838.1  | 8838.1  | 8838.1 | 8838.1 | 8838.1 | 8838.1 | 8838.1 | 8838.1 | 8838.1 | 8838.1 | 8838.1 |
| 2.5°  | 8850.9  | 8876.2  | 8808.4 | 8742.7 | 8683.4 | 8600.8 | 8526.6 | 8465.1 | 8422.7 | 8416.4 | 8395.2 |
| 5°    | 8880.6  | 8882.7  | 8753.3 | 8579.6 | 8410.0 | 8223.5 | 8030.6 | 7892.9 | 7763.6 | 7691.5 | 7655.5 |
| 7.5°  | 8901.7  | 8882.7  | 8649.5 | 8367.6 | 8041.2 | 7702.1 | 7363.0 | 7091.7 | 6881.9 | 6799.2 | 6831.0 |
| 10°   | 8893.2  | 8833.9  | 8492.7 | 8041.2 | 7566.4 | 7059.9 | 6572.4 | 6190.9 | 5841.2 | 5661.1 | 5665.3 |
| 12.5° | 8846.6  | 8749.1  | 8259.6 | 7674.6 | 6977.2 | 6299.0 | 5553.0 | 5038.0 | 4633.2 | 4393.6 | 4319.4 |
| 15°   | 8806.3  | 8636.8  | 7986.1 | 7176.5 | 6309.6 | 5341.0 | 4431.8 | 3795.9 | 3456.9 | 3268.2 | 3266.0 |
| 17.5° | 8764.0  | 8528.7  | 7687.3 | 6648.8 | 5542.4 | 4296.2 | 3342.4 | 2857.0 | 2698.1 | 2717.2 | 2685.4 |
| 20°   | 8719.4  | 8401.5  | 7375.7 | 6061.7 | 4607.7 | 3204.6 | 2503.1 | 2305.9 | 2350.5 | 2437.4 | 2450.1 |
| 22.5° | 8668.6  | 8265.9  | 7040.8 | 5415.2 | 3624.3 | 2412.0 | 2030.5 | 2000.8 | 2115.2 | 2250.9 | 2269.9 |
| 25°   | 8590.1  | 8096.3  | 6619.1 | 4739.1 | 2795.5 | 1943.6 | 1778.2 | 1799.4 | 1911.8 | 2026.2 | 2038.9 |
| 27.5° | 8480.0  | 7886.5  | 6193.1 | 3895.6 | 2100.4 | 1668.0 | 1625.6 | 1653.1 | 1708.3 | 1778.2 | 1795.2 |
| 30°   | 8331.6  | 7649.1  | 5703.5 | 3166.5 | 1682.8 | 1530.2 | 1513.3 | 1528.1 | 1559.9 | 1589.6 | 1598.1 |
| 32.5° | 8183.2  | 7420.2  | 5209.6 | 2424.6 | 1500.5 | 1439.1 | 1422.2 | 1422.2 | 1422.2 | 1426.4 | 1428.5 |
| 35°   | 8045.5  | 7204.0  | 4679.8 | 1888.4 | 1405.2 | 1367.0 | 1343.7 | 1318.3 | 1314.0 | 1299.2 | 1299.2 |
| 37.5° | 7969.1  | 7006.9  | 4116.0 | 1581.1 | 1335.2 | 1307.7 | 1275.9 | 1233.5 | 1210.2 | 1212.3 | 1208.1 |
| 40°   | 7984.0  | 6877.6  | 3603.1 | 1407.3 | 1278.0 | 1248.3 | 1199.6 | 1150.9 | 1136.1 | 1136.1 | 1131.8 |
| 42.5° | 8151.4  | 6835.3  | 3111.3 | 1316.1 | 1222.9 | 1189.0 | 1127.5 | 1083.0 | 1074.6 | 1072.5 | 1076.7 |
| 45°   | 8537.1  | 6939.1  | 2670.5 | 1256.9 | 1176.3 | 1125.4 | 1063.9 | 1023.7 | 1015.2 | 1015.2 | 1013.1 |
| 47.5° | 9289.6  | 7276.1  | 2354.7 | 1218.7 | 1142.4 | 1076.7 | 1013.1 | 972.8  | 958.0  | 953.8  | 953.8  |
| 50°   | 10459.5 | 8007.3  | 2119.4 | 1184.8 | 1100.0 | 1032.2 | 966.5  | 919.9  | 896.5  | 894.4  | 892.3  |
| 52.5° | 12085.1 | 9147.6  | 2028.3 | 1159.3 | 1053.4 | 985.6  | 913.4  | 869.0  | 839.3  | 833.0  | 828.7  |
| 55°   | 13986.3 | 10739.3 | 2153.3 | 1140.3 | 1004.6 | 932.6  | 858.4  | 811.7  | 784.2  | 771.5  | 769.4  |
| 57.5° | 16188.4 | 12651.0 | 2628.1 | 1114.8 | 960.1  | 875.3  | 803.3  | 756.6  | 726.9  | 712.1  | 707.9  |
| 60°   | 18165.8 | 14615.8 | 3456.9 | 1100.0 | 922.0  | 813.9  | 739.7  | 697.3  | 669.8  | 654.9  | 652.8  |
| 62.5° | 20338.3 | 16489.4 | 4446.6 | 1140.3 | 905.0  | 754.5  | 680.3  | 642.2  | 618.9  | 604.0  | 604.0  |
| 65°   | 22659.1 | 18365.1 | 5101.6 | 1275.9 | 930.4  | 707.9  | 616.8  | 585.0  | 563.8  | 553.2  | 551.1  |
| 67.5° | 24223.3 | 19013.7 | 4202.9 | 1415.8 | 994.0  | 657.0  | 555.3  | 529.9  | 517.2  | 506.5  | 506.5  |
| 69°   | 24053.7 | 18193.4 | 3100.8 | 1451.8 | 1013.1 | 631.6  | 521.4  | 502.3  | 485.4  | 481.2  | 476.8  |
| 70°   | 23517.5 | 17258.7 | 2598.5 | 1428.5 | 998.2  | 608.3  | 500.2  | 476.8  | 462.0  | 457.8  | 455.7  |
| 72.5° | 20946.6 | 14967.6 | 1935.0 | 1242.0 | 849.9  | 527.7  | 442.9  | 421.8  | 409.0  | 402.7  | 402.7  |
| 75°   | 17402.9 | 12233.5 | 1511.2 | 987.7  | 665.5  | 445.1  | 379.4  | 362.5  | 351.8  | 347.6  | 345.5  |
| 77.5° | 9753.8  | 6831.0  | 1085.2 | 773.6  | 504.4  | 360.3  | 317.9  | 303.1  | 292.5  | 288.2  | 288.2  |
| 80°   | 2717.2  | 1952.0  | 638.0  | 510.8  | 343.3  | 273.4  | 252.2  | 241.6  | 226.8  | 216.2  | 222.5  |
| 82.5° | 1023.7  | 845.6   | 364.6  | 307.3  | 218.3  | 182.3  | 175.9  | 167.4  | 161.1  | 146.3  | 146.3  |
| 85°   | 498.1   | 411.2   | 233.2  | 163.2  | 120.8  | 95.4   | 91.1   | 86.9   | 82.7   | 72.0   | 74.2   |
| 87.5° | 171.7   | 182.3   | 101.7  | 59.4   | 36.0   | 23.3   | 19.1   | 10.6   | 10.6   | 10.6   | 10.6   |
| 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)