

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: P323530

Luminaire Tested: **GAN-SA6C-740-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6C-740-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36141 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

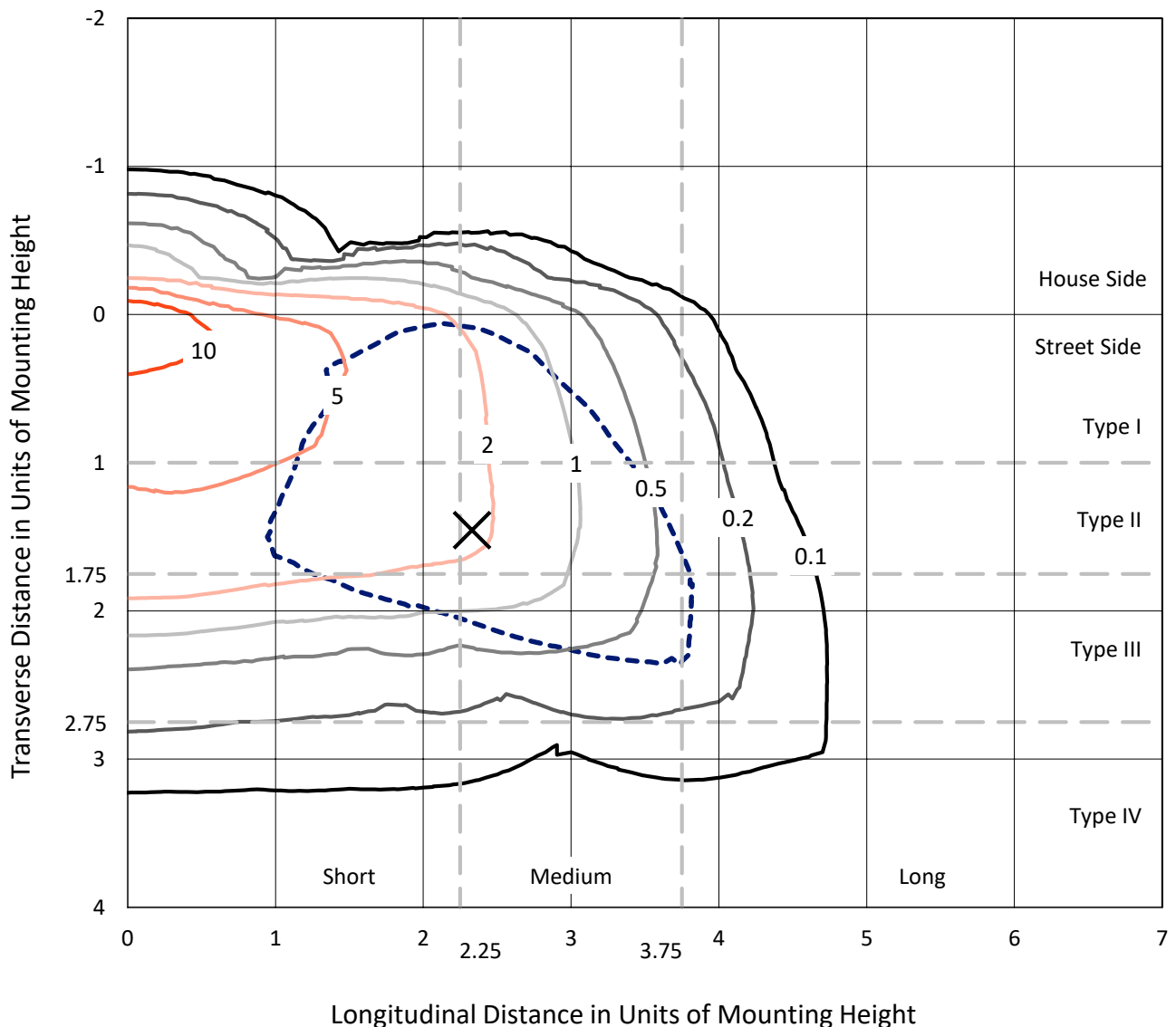
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

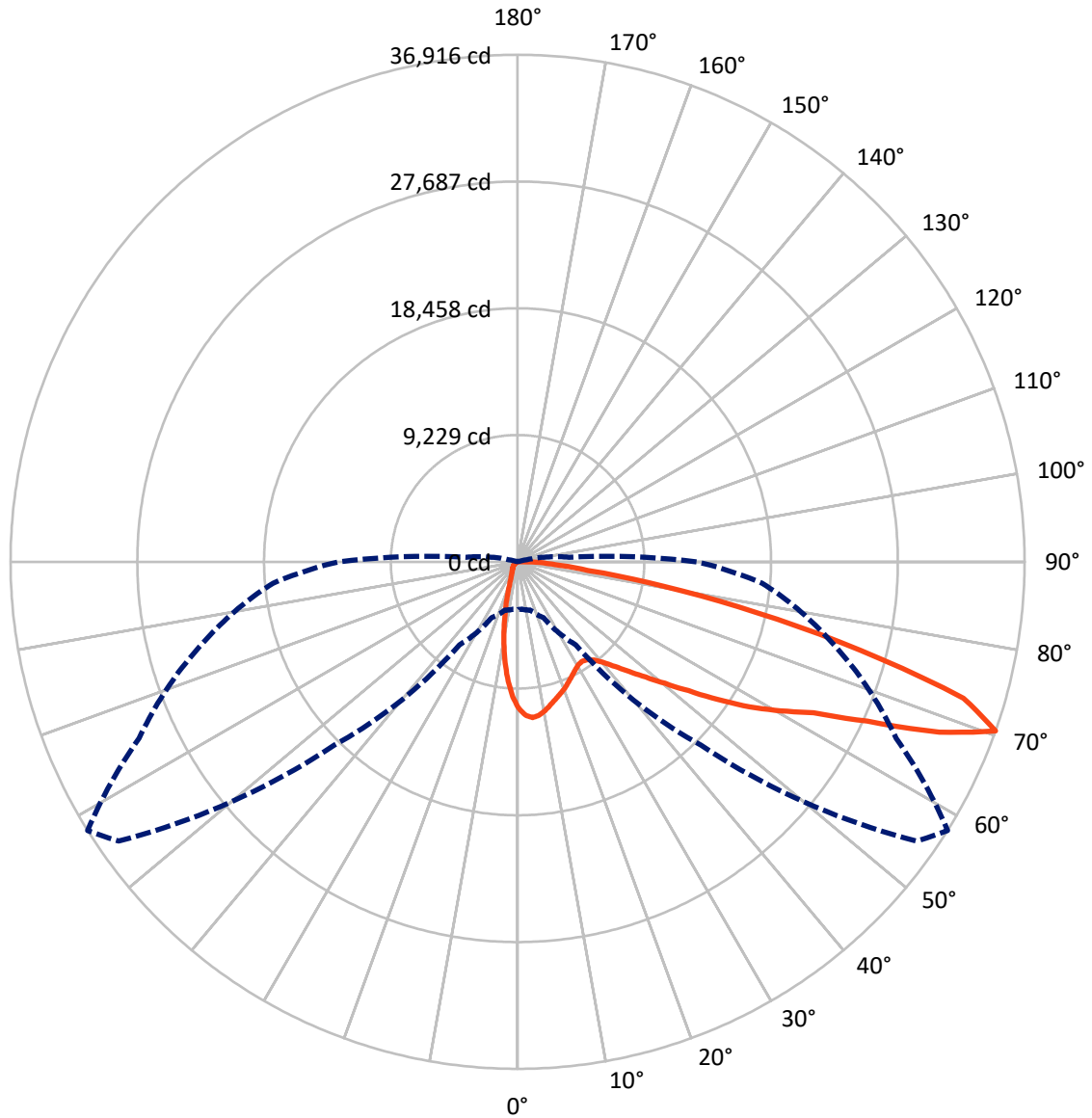
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3092.9   | 0.0    | 3092.9  |
|                    | % Fixture | 8.6      | 0.0    | 8.6     |
| <b>Street Side</b> | Lumens    | 33048.1  | 0.0    | 33048.1 |
|                    | % Fixture | 91.4     | 0.0    | 91.4    |
| <b>Total</b>       | Lumens    | 36141.0  | 0.0    | 36141.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 873.0   | 2.4       |
| 10°-20°   | 1832.3  | 5.1       |
| 20°-30°   | 2408.8  | 6.7       |
| 30°-40°   | 3190.2  | 8.8       |
| 40°-50°   | 4768.3  | 13.2      |
| 50°-60°   | 7638.6  | 21.1      |
| 60°-70°   | 9628.4  | 26.6      |
| 70°-80°   | 5193.5  | 14.4      |
| 80°-90°   | 607.9   | 1.7       |
| 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°    | 36141.0 | 100.0     |
| 0°-180°   | 36141.0 | 100.0     |

**Coefficient of Utilization**

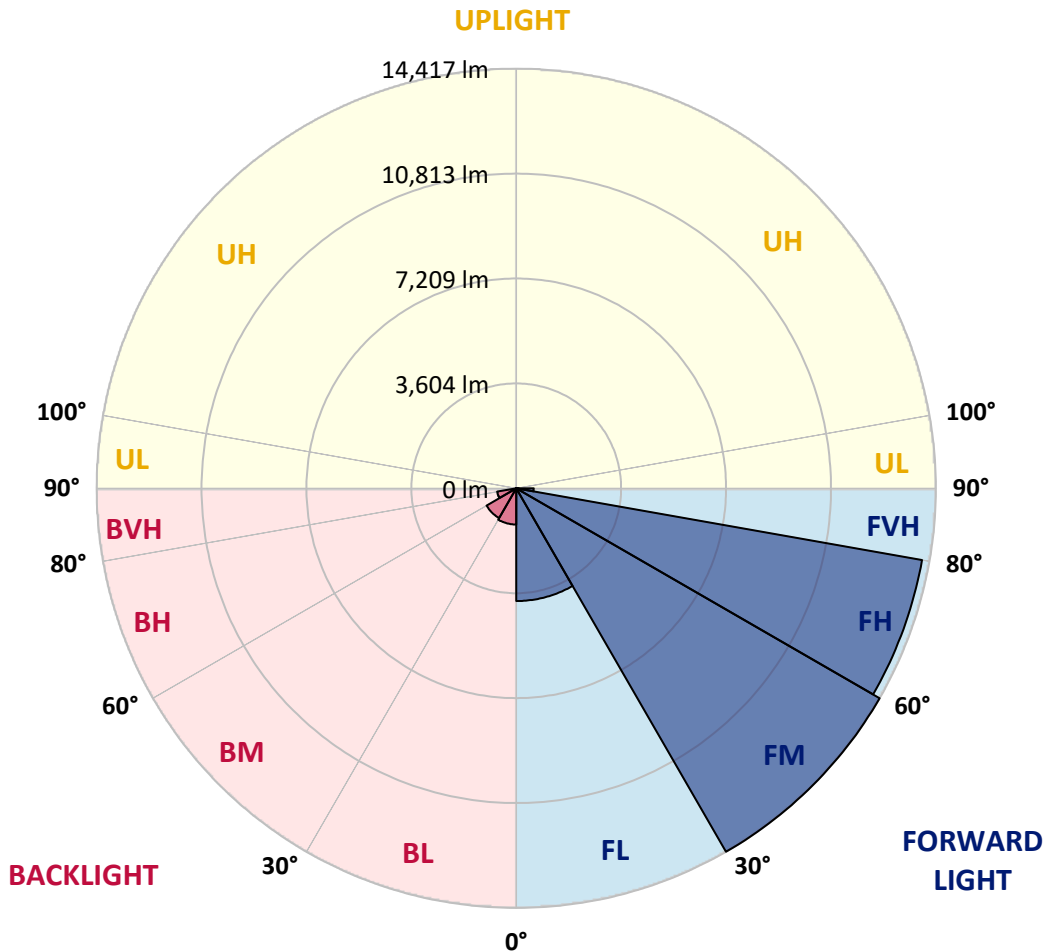


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3871.4  | 10.7      |                         |      |         |
| FM (30°-60°)   | 14417.2 | 39.9      |                         |      |         |
| FH (60°-80°)   | 14156.8 | 39.2      |                         |      | G5      |
| FVH (80°-90°)  | 602.7   | 1.7       |                         |      | G4/750  |
| BL (0°-30°)    | 1242.6  | 3.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 1179.9  | 3.3       | B2/2500                 |      |         |
| BH (60°-80°)   | 665.1   | 1.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 5.2     | 0.0       |                         |      | G0/10   |
| 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°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10675.9 | 10675.9 | 10675.9 | 10675.9 | 10675.9 | 10675.9 | 10675.9 | 10675.9 | 10675.9 | 10675.9 | 10675.9 |
| 2.5°  | 11561.0 | 11532.5 | 11522.0 | 11503.9 | 11434.8 | 11367.2 | 11233.4 | 11195.8 | 11111.7 | 10911.8 | 10699.9 |
| 5°    | 11570.0 | 11568.5 | 11600.1 | 11592.6 | 11568.5 | 11537.0 | 11440.8 | 11391.2 | 11248.4 | 10962.9 | 10575.2 |
| 7.5°  | 11012.5 | 11041.1 | 11111.7 | 11168.8 | 11234.9 | 11320.6 | 11332.6 | 11284.5 | 11167.3 | 10859.2 | 10345.3 |
| 10°   | 10264.1 | 10309.2 | 10408.4 | 10521.1 | 10693.9 | 10865.2 | 11018.5 | 11012.5 | 10971.9 | 10668.4 | 10068.7 |
| 12.5° | 9514.2  | 9566.8  | 9681.0  | 9847.8  | 10092.8 | 10372.3 | 10645.8 | 10683.4 | 10751.0 | 10497.0 | 9813.3  |
| 15°   | 8857.5  | 8902.6  | 9015.3  | 9219.7  | 9523.2  | 9898.9  | 10300.2 | 10369.3 | 10543.6 | 10363.3 | 9599.9  |
| 17.5° | 8300.0  | 8328.5  | 8411.2  | 8638.1  | 8989.7  | 9445.1  | 9966.6  | 10101.8 | 10361.8 | 10258.1 | 9415.0  |
| 20°   | 7910.7  | 7915.2  | 7969.3  | 8128.6  | 8480.3  | 8989.7  | 9620.9  | 9814.8  | 10169.4 | 10167.9 | 9224.2  |
| 22.5° | 7718.4  | 7703.3  | 7713.9  | 7805.5  | 8064.0  | 8555.4  | 9275.3  | 9505.2  | 9996.6  | 10091.3 | 9030.3  |
| 25°   | 7682.3  | 7670.3  | 7640.2  | 7652.2  | 7808.5  | 8175.2  | 8926.6  | 9192.6  | 9844.8  | 10044.7 | 8862.0  |
| 27.5° | 7795.0  | 7807.0  | 7755.9  | 7701.8  | 7713.9  | 7928.8  | 8617.0  | 8925.1  | 9721.6  | 10044.7 | 8743.3  |
| 30°   | 8021.9  | 8027.9  | 7990.4  | 7919.7  | 7825.1  | 7859.6  | 8402.1  | 8710.2  | 9660.0  | 10113.8 | 8668.1  |
| 32.5° | 8272.9  | 8306.0  | 8301.5  | 8244.4  | 8109.1  | 7969.3  | 8351.1  | 8632.1  | 9655.5  | 10267.1 | 8660.6  |
| 35°   | 8584.0  | 8621.6  | 8684.7  | 8672.6  | 8531.4  | 8301.5  | 8525.4  | 8746.3  | 9744.1  | 10519.6 | 8741.8  |
| 37.5° | 8914.6  | 8971.7  | 9107.0  | 9171.6  | 9079.9  | 8819.9  | 8916.1  | 9073.9  | 9981.6  | 10928.4 | 8947.7  |
| 40°   | 9234.7  | 9299.3  | 9545.8  | 9799.7  | 9730.6  | 9463.1  | 9508.2  | 9634.4  | 10403.9 | 11515.9 | 9338.4  |
| 42.5° | 9548.8  | 9645.0  | 10007.1 | 10424.9 | 10507.6 | 10294.2 | 10318.2 | 10418.9 | 11030.5 | 12324.5 | 9977.1  |
| 45°   | 9924.5  | 10032.7 | 10569.2 | 11084.6 | 11305.6 | 11212.4 | 11314.6 | 11380.7 | 11849.6 | 13392.9 | 10838.2 |
| 47.5° | 10476.0 | 10600.7 | 11259.0 | 11846.6 | 12234.3 | 12294.4 | 12500.3 | 12543.9 | 12885.0 | 14637.3 | 11960.8 |
| 50°   | 11552.0 | 11586.6 | 12181.7 | 12715.2 | 13274.2 | 13634.9 | 13869.3 | 13902.4 | 14138.3 | 15997.3 | 13362.9 |
| 52.5° | 12906.0 | 12928.6 | 13265.2 | 13622.9 | 14258.6 | 14994.9 | 15543.4 | 15590.0 | 15639.6 | 17322.8 | 14747.0 |
| 55°   | 14251.0 | 14248.0 | 14470.4 | 14680.8 | 15408.2 | 16478.2 | 17668.4 | 17697.0 | 17340.8 | 18580.6 | 15804.9 |
| 57.5° | 15091.1 | 15172.3 | 15510.4 | 15780.9 | 16796.8 | 18168.8 | 19820.4 | 19925.6 | 19127.6 | 19512.3 | 16850.9 |
| 60°   | 14823.6 | 14862.7 | 15612.6 | 16613.4 | 18526.5 | 20571.8 | 21998.0 | 22025.0 | 20471.1 | 20442.6 | 18173.3 |
| 62.5° | 12629.5 | 12650.6 | 13828.8 | 15892.1 | 19402.6 | 23688.6 | 24624.9 | 24184.5 | 22016.0 | 21733.5 | 19755.8 |
| 65°   | 8656.1  | 8792.9  | 9777.2  | 12327.5 | 17793.1 | 25643.8 | 28691.4 | 27962.6 | 24370.9 | 23593.9 | 21186.5 |
| 67.5° | 5097.5  | 5068.9  | 5555.8  | 7434.3  | 13068.3 | 24345.3 | 33835.5 | 33111.2 | 27582.4 | 24839.8 | 20767.2 |
| 70°   | 3482.0  | 3462.4  | 3648.8  | 4500.9  | 7377.2  | 18885.7 | 35454.0 | 36916.2 | 30418.1 | 24001.2 | 17872.8 |
| 72.5° | 2485.6  | 2496.1  | 2771.2  | 3497.0  | 4631.6  | 11003.5 | 30488.8 | 33949.7 | 29530.0 | 20923.5 | 13585.3 |
| 75°   | 1687.6  | 1716.2  | 2109.9  | 2868.8  | 4060.6  | 5597.9  | 21635.8 | 25807.6 | 24046.3 | 15206.8 | 7808.5  |
| 77.5° | 907.7   | 939.2   | 1403.6  | 2311.3  | 3671.3  | 3889.2  | 13917.4 | 17761.6 | 15104.6 | 6836.2  | 2263.2  |
| 80°   | 378.7   | 396.7   | 656.7   | 1680.1  | 3172.4  | 3415.9  | 8188.7  | 10770.6 | 6436.5  | 1348.0  | 504.9   |
| 82.5° | 163.8   | 172.8   | 273.5   | 1002.4  | 2371.4  | 2883.9  | 4335.6  | 5181.6  | 1950.6  | 296.1   | 254.0   |
| 85°   | 31.6    | 33.1    | 112.7   | 530.5   | 1513.3  | 1627.5  | 2810.2  | 2754.6  | 876.1   | 127.7   | 184.8   |
| 87.5° | 0.0     | 0.0     | 27.1    | 166.8   | 444.8   | 886.7   | 1714.7  | 1693.7  | 297.6   | 61.6    | 69.1    |
| 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°    | 10675.9 | 10675.9 | 10675.9 | 10675.9 | 10675.9 | 10675.9 | 10675.9 | 10675.9 | 10675.9 | 10675.9 | 10675.9 |
| 2.5°  | 10591.7 | 10488.0 | 10270.1 | 10001.1 | 9795.2  | 9568.3  | 9388.0  | 9159.6  | 9060.4  | 9064.9  | 9010.8  |
| 5°    | 10354.3 | 10140.9 | 9658.5  | 9049.9  | 8581.0  | 8097.1  | 7680.8  | 7266.0  | 7021.1  | 6941.4  | 6866.3  |
| 7.5°  | 10014.6 | 9676.5  | 8907.1  | 7969.3  | 7175.9  | 6400.4  | 5725.7  | 5132.1  | 4756.4  | 4573.0  | 4505.4  |
| 10°   | 9631.4  | 9156.6  | 8043.0  | 6807.7  | 5674.6  | 4625.6  | 3751.0  | 2990.6  | 2687.0  | 2481.1  | 2428.5  |
| 12.5° | 9294.8  | 8651.6  | 7198.4  | 5616.0  | 4271.0  | 3005.6  | 2171.5  | 1698.2  | 1492.3  | 1411.1  | 1397.6  |
| 15°   | 8977.7  | 8179.7  | 6385.4  | 4536.9  | 2957.5  | 1849.9  | 1381.1  | 1220.3  | 1172.2  | 1158.7  | 1158.7  |
| 17.5° | 8678.7  | 7730.4  | 5590.4  | 3474.5  | 1956.6  | 1296.9  | 1143.6  | 1107.6  | 1092.5  | 1091.0  | 1092.5  |
| 20°   | 8366.1  | 7281.1  | 4809.0  | 2545.7  | 1366.0  | 1098.5  | 1056.5  | 1036.9  | 1032.4  | 1032.4  | 1032.4  |
| 22.5° | 8067.0  | 6831.7  | 4048.5  | 1818.4  | 1095.5  | 1002.4  | 981.3   | 967.8   | 963.3   | 961.8   | 958.8   |
| 25°   | 7780.0  | 6404.9  | 3306.2  | 1284.9  | 961.8   | 918.2   | 900.2   | 882.1   | 868.6   | 861.1   | 856.6   |
| 27.5° | 7544.0  | 6024.7  | 2614.9  | 1030.9  | 868.6   | 831.0   | 808.5   | 781.5   | 748.4   | 733.4   | 727.4   |
| 30°   | 7356.2  | 5677.6  | 2015.3  | 870.1   | 781.5   | 743.9   | 709.3   | 662.7   | 614.6   | 589.1   | 587.6   |
| 32.5° | 7208.9  | 5336.4  | 1529.8  | 769.4   | 703.3   | 656.7   | 607.1   | 548.5   | 492.9   | 464.4   | 462.9   |
| 35°   | 7136.8  | 5035.9  | 1169.2  | 695.8   | 634.2   | 575.6   | 514.0   | 449.3   | 395.2   | 368.2   | 365.2   |
| 37.5° | 7184.9  | 4781.9  | 912.2   | 634.2   | 575.6   | 507.9   | 435.8   | 368.2   | 320.1   | 296.1   | 294.5   |
| 40°   | 7360.7  | 4619.6  | 740.9   | 581.6   | 526.0   | 443.3   | 365.2   | 302.1   | 261.5   | 242.0   | 240.4   |
| 42.5° | 7734.9  | 4559.5  | 632.7   | 538.0   | 477.9   | 383.2   | 303.6   | 249.5   | 211.9   | 198.4   | 195.4   |
| 45°   | 8360.1  | 4648.2  | 559.0   | 495.9   | 428.3   | 326.1   | 251.0   | 204.4   | 171.3   | 160.8   | 159.3   |
| 47.5° | 9192.6  | 4881.1  | 506.4   | 455.3   | 383.2   | 275.0   | 208.9   | 165.3   | 139.8   | 129.2   | 127.7   |
| 50°   | 10265.6 | 5250.8  | 462.9   | 414.8   | 341.1   | 232.9   | 172.8   | 130.7   | 108.2   | 100.7   | 100.7   |
| 52.5° | 11433.3 | 5691.1  | 423.8   | 377.2   | 299.1   | 193.9   | 139.8   | 100.7   | 85.7    | 76.6    | 76.6    |
| 55°   | 12398.1 | 6075.8  | 381.7   | 348.6   | 248.0   | 160.8   | 106.7   | 76.6    | 63.1    | 58.6    | 58.6    |
| 57.5° | 13361.4 | 6486.1  | 333.6   | 299.1   | 198.4   | 130.7   | 81.2    | 57.1    | 46.6    | 43.6    | 43.6    |
| 60°   | 14610.2 | 6988.0  | 287.0   | 243.5   | 156.3   | 99.2    | 60.1    | 40.6    | 34.6    | 33.1    | 33.1    |
| 62.5° | 15983.8 | 7282.6  | 245.0   | 195.4   | 121.7   | 73.6    | 43.6    | 27.1    | 25.5    | 25.5    | 24.0    |
| 65°   | 16823.8 | 6866.3  | 205.9   | 156.3   | 94.7    | 55.6    | 28.6    | 19.5    | 22.5    | 21.0    | 18.0    |
| 67.5° | 15752.3 | 5375.5  | 168.3   | 121.7   | 73.6    | 42.1    | 18.0    | 13.5    | 24.0    | 19.5    | 15.0    |
| 70°   | 13042.8 | 3763.0  | 130.7   | 85.7    | 58.6    | 36.1    | 12.0    | 9.0     | 25.5    | 19.5    | 12.0    |
| 72.5° | 9760.7  | 2518.7  | 103.7   | 57.1    | 43.6    | 31.6    | 10.5    | 4.5     | 22.5    | 16.5    | 10.5    |
| 75°   | 5333.4  | 1014.4  | 82.7    | 36.1    | 27.1    | 22.5    | 7.5     | 3.0     | 15.0    | 12.0    | 7.5     |
| 77.5° | 1403.6  | 267.5   | 60.1    | 24.0    | 15.0    | 9.0     | 4.5     | 1.5     | 7.5     | 6.0     | 3.0     |
| 80°   | 357.7   | 103.7   | 39.1    | 16.5    | 10.5    | 4.5     | 0.0     | 0.0     | 1.5     | 0.0     | 0.0     |
| 82.5° | 190.9   | 43.6    | 24.0    | 12.0    | 6.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 144.3   | 28.6    | 13.5    | 7.5     | 1.5     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 55.6    | 9.0     | 4.5     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 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)