

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: P452122

Luminaire Tested: **GLAN-SA3A-740-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3A-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13730 lumens  
Efficiency: N/A  
Efficacy: 147.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

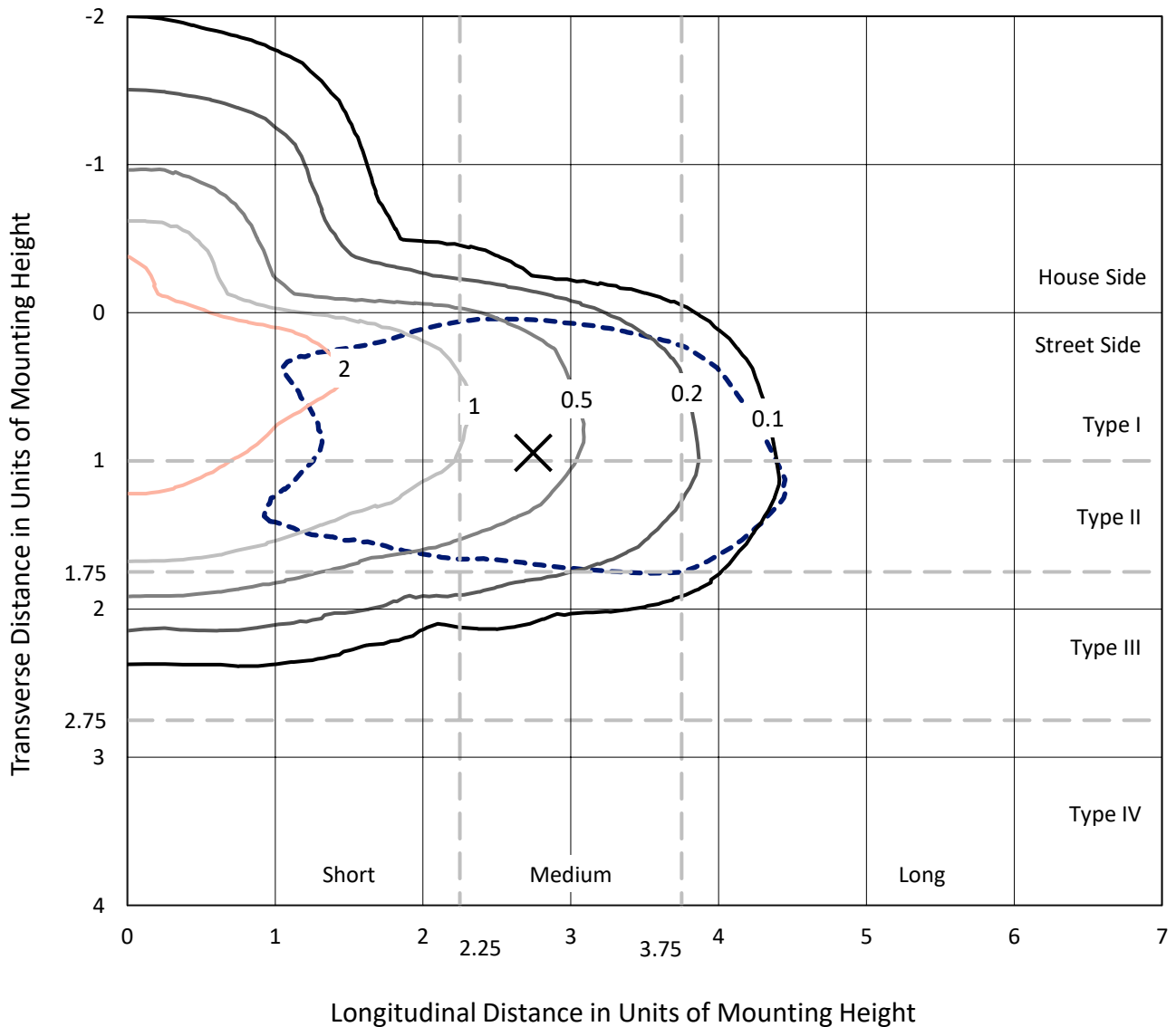
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

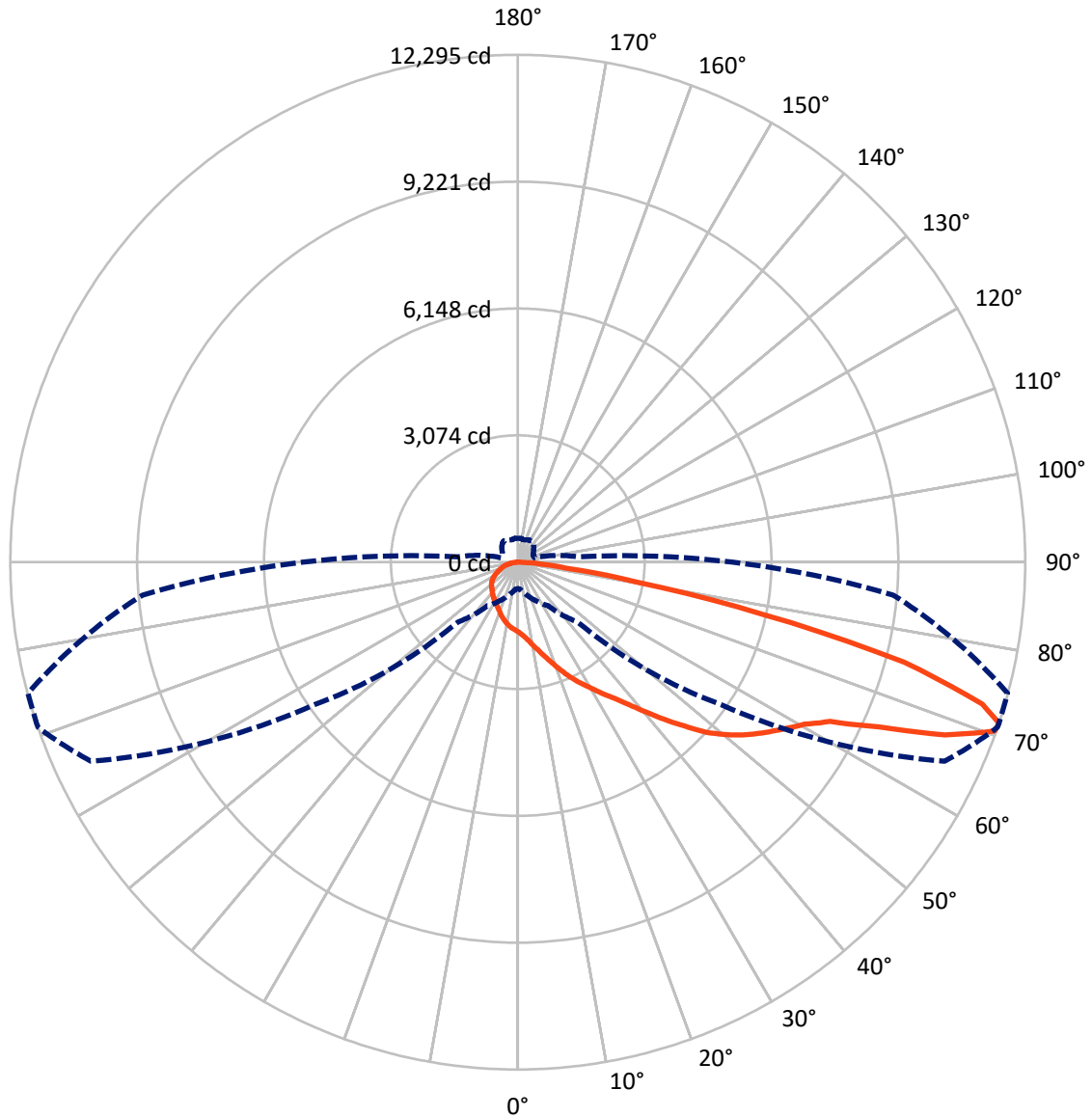
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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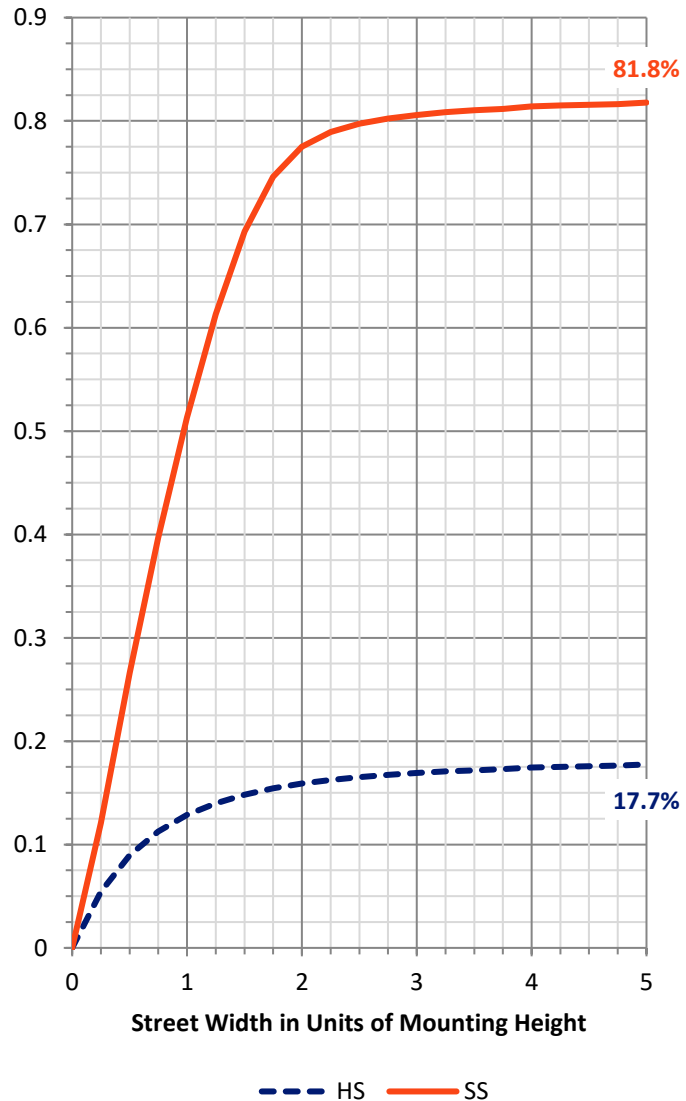
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2469.3   | 0.0    | 2469.3  |
|                    | % Fixture | 18.0     | 0.0    | 18.0    |
| <b>Street Side</b> | Lumens    | 11260.7  | 0.0    | 11260.7 |
|                    | % Fixture | 82.0     | 0.0    | 82.0    |
| <b>Total</b>       | Lumens    | 13730.0  | 0.0    | 13730.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 169.2   | 1.2       |
| 10°-20°   | 549.7   | 4.0       |
| 20°-30°   | 960.6   | 7.0       |
| 30°-40°   | 1428.8  | 10.4      |
| 40°-50°   | 2105.2  | 15.3      |
| 50°-60°   | 2947.3  | 21.5      |
| 60°-70°   | 3296.5  | 24.0      |
| 70°-80°   | 2013.6  | 14.7      |
| 80°-90°   | 259.0   | 1.9       |
| 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°    | 13730.0 | 100.0     |
| 0°-180°   | 13730.0 | 100.0     |



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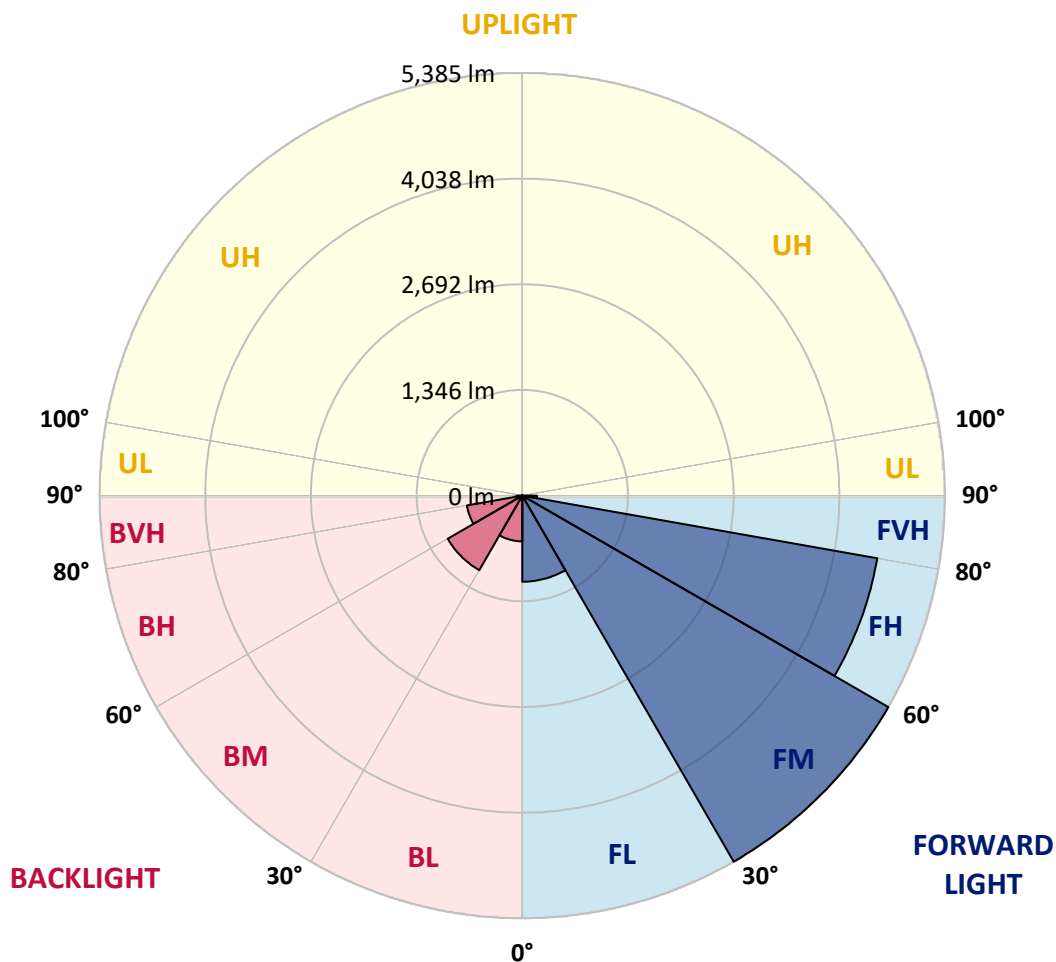
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1097.0 | 8.0       |                         |      |         |
| FM   | (30°-60°)   | 5384.6 | 39.2      |                         |      |         |
| FH   | (60°-80°)   | 4592.6 | 33.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 186.4  | 1.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 582.5  | 4.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1096.7 | 8.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 717.4  | 5.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 72.6   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 71°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0°    | 1685.1 | 1685.1 | 1685.1 | 1685.1 | 1685.1 | 1685.1 | 1685.1 | 1685.1  | 1685.1  | 1685.1  | 1685.1 |
| 2.5°  | 1870.7 | 1861.7 | 1862.4 | 1849.6 | 1833.0 | 1814.9 | 1789.2 | 1766.6  | 1748.5  | 1737.9  | 1707.0 |
| 5°    | 2073.0 | 2063.9 | 2052.6 | 2024.7 | 2012.6 | 1968.1 | 1911.5 | 1860.2  | 1820.9  | 1799.0  | 1737.2 |
| 7.5°  | 2236.7 | 2234.5 | 2231.4 | 2215.6 | 2184.7 | 2122.8 | 2074.5 | 1985.4  | 1927.3  | 1885.8  | 1780.2 |
| 10°   | 2337.8 | 2341.6 | 2343.9 | 2346.9 | 2334.1 | 2301.6 | 2235.2 | 2122.8  | 2048.8  | 1996.0  | 1836.0 |
| 12.5° | 2389.2 | 2392.9 | 2405.8 | 2433.7 | 2451.0 | 2447.3 | 2392.9 | 2282.8  | 2180.9  | 2111.5  | 1895.6 |
| 15°   | 2420.8 | 2426.9 | 2449.5 | 2486.5 | 2544.6 | 2581.6 | 2555.2 | 2453.3  | 2341.6  | 2259.4  | 1966.6 |
| 17.5° | 2455.6 | 2462.4 | 2487.3 | 2540.1 | 2616.3 | 2696.3 | 2725.0 | 2637.4  | 2515.9  | 2417.8  | 2045.8 |
| 20°   | 2475.2 | 2484.2 | 2519.7 | 2589.1 | 2678.2 | 2794.4 | 2889.5 | 2843.4  | 2710.6  | 2602.0  | 2137.1 |
| 22.5° | 2506.9 | 2514.4 | 2544.6 | 2618.6 | 2725.0 | 2870.6 | 3054.0 | 3044.2  | 2927.2  | 2786.8  | 2237.5 |
| 25°   | 2592.9 | 2605.0 | 2620.1 | 2664.6 | 2767.2 | 2948.3 | 3190.6 | 3258.5  | 3137.0  | 2980.0  | 2329.5 |
| 27.5° | 2755.2 | 2765.0 | 2764.2 | 2770.2 | 2828.3 | 3015.5 | 3309.0 | 3470.5  | 3345.3  | 3175.5  | 2418.6 |
| 30°   | 2940.0 | 2943.8 | 2946.8 | 2933.2 | 2946.1 | 3084.2 | 3417.7 | 3680.3  | 3555.1  | 3376.2  | 2496.3 |
| 32.5° | 3164.9 | 3172.5 | 3146.8 | 3112.1 | 3101.5 | 3186.0 | 3507.5 | 3890.1  | 3803.3  | 3580.0  | 2573.3 |
| 35°   | 3430.5 | 3450.2 | 3398.1 | 3337.0 | 3294.0 | 3332.4 | 3628.3 | 4104.4  | 4057.6  | 3840.3  | 2675.2 |
| 37.5° | 3733.9 | 3758.1 | 3709.8 | 3589.8 | 3528.6 | 3539.2 | 3786.0 | 4369.3  | 4379.1  | 4136.9  | 2826.8 |
| 40°   | 3982.2 | 4013.9 | 4015.4 | 3845.6 | 3752.8 | 3764.8 | 3986.0 | 4654.6  | 4767.0  | 4503.6  | 3005.7 |
| 42.5° | 4145.9 | 4176.9 | 4209.3 | 4109.7 | 4012.4 | 4081.0 | 4219.1 | 4963.9  | 5203.2  | 4948.9  | 3255.5 |
| 45°   | 4325.5 | 4353.5 | 4371.6 | 4326.3 | 4272.0 | 4450.0 | 4500.6 | 5293.0  | 5668.0  | 5446.2  | 3528.6 |
| 47.5° | 4533.8 | 4564.8 | 4582.1 | 4539.1 | 4518.7 | 4773.8 | 4804.0 | 5600.1  | 6164.6  | 5929.1  | 3830.5 |
| 50°   | 4811.5 | 4834.9 | 4825.9 | 4798.7 | 4794.2 | 5022.1 | 5095.3 | 5887.6  | 6574.3  | 6449.1  | 4143.7 |
| 52.5° | 5157.1 | 5185.1 | 5194.9 | 5156.4 | 5139.0 | 5199.4 | 5329.9 | 6149.5  | 6947.1  | 6895.8  | 4478.0 |
| 55°   | 5366.2 | 5410.7 | 5560.1 | 5620.5 | 5662.0 | 5428.8 | 5582.7 | 6438.5  | 7281.4  | 7366.7  | 4837.2 |
| 57.5° | 5098.3 | 5155.6 | 5489.9 | 5791.8 | 6181.9 | 6002.3 | 5941.2 | 6740.3  | 7615.7  | 7823.2  | 5267.3 |
| 60°   | 4444.8 | 4457.6 | 4888.5 | 5444.6 | 6229.5 | 6739.6 | 6689.0 | 7220.3  | 7977.9  | 8283.6  | 5834.0 |
| 62.5° | 3083.4 | 3110.6 | 3620.0 | 4507.4 | 5642.4 | 7005.2 | 7961.3 | 8048.9  | 8497.1  | 8972.5  | 6664.9 |
| 65°   | 1590.0 | 1554.5 | 2018.6 | 2832.9 | 4253.8 | 6374.4 | 8992.2 | 9572.5  | 9623.0  | 10050.1 | 7834.6 |
| 67.5° | 978.8  | 994.6  | 1211.9 | 1654.1 | 2515.2 | 4632.7 | 8884.2 | 11434.1 | 11167.8 | 11373.0 | 8920.5 |
| 70°   | 735.0  | 754.6  | 904.0  | 1131.9 | 1533.4 | 2648.7 | 7144.8 | 11885.4 | 12257.4 | 12204.6 | 9251.0 |
| 71°   | 639.2  | 659.5  | 815.0  | 1030.1 | 1288.2 | 2044.3 | 6019.7 | 11413.0 | 12295.2 | 12286.1 | 9126.5 |
| 72.5° | 544.8  | 557.7  | 679.2  | 872.4  | 1085.9 | 1433.0 | 4522.5 | 10235.8 | 11770.7 | 12071.8 | 8682.0 |
| 75°   | 427.9  | 437.7  | 492.0  | 665.6  | 855.0  | 879.9  | 2426.9 | 7673.8  | 9667.6  | 10241.1 | 7227.8 |
| 77.5° | 348.6  | 355.4  | 383.4  | 494.3  | 659.5  | 623.3  | 1273.1 | 4994.9  | 6056.7  | 6633.9  | 4257.6 |
| 80°   | 276.9  | 284.5  | 301.1  | 335.1  | 494.3  | 444.5  | 607.5  | 2531.0  | 2925.7  | 2919.7  | 1699.4 |
| 82.5° | 215.1  | 217.3  | 237.0  | 246.0  | 338.1  | 315.4  | 329.0  | 1071.6  | 1187.0  | 1226.3  | 613.5  |
| 85°   | 135.8  | 142.6  | 209.8  | 188.7  | 202.2  | 184.9  | 162.2  | 425.6   | 524.5   | 516.9   | 245.3  |
| 87.5° | 41.5   | 43.8   | 70.9   | 80.0   | 89.8   | 80.7   | 59.6   | 125.3   | 153.2   | 166.0   | 61.1   |
| 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°    | 1685.1 | 1685.1 | 1685.1 | 1685.1 | 1685.1 | 1685.1 | 1685.1 | 1685.1 | 1685.1 | 1685.1 | 1685.1 |
| 2.5°  | 1694.9 | 1686.6 | 1657.2 | 1633.0 | 1610.4 | 1585.5 | 1564.3 | 1558.3 | 1553.0 | 1550.8 | 1550.0 |
| 5°    | 1710.7 | 1685.8 | 1627.7 | 1580.2 | 1542.5 | 1507.7 | 1485.9 | 1476.1 | 1466.2 | 1466.2 | 1469.3 |
| 7.5°  | 1733.4 | 1688.1 | 1598.3 | 1527.4 | 1479.8 | 1447.4 | 1431.5 | 1430.0 | 1432.3 | 1434.5 | 1435.3 |
| 10°   | 1758.3 | 1686.6 | 1555.3 | 1467.0 | 1424.7 | 1409.6 | 1410.4 | 1423.2 | 1435.3 | 1444.4 | 1445.9 |
| 12.5° | 1782.4 | 1677.5 | 1504.7 | 1410.4 | 1383.2 | 1386.3 | 1407.4 | 1436.1 | 1459.5 | 1472.3 | 1473.0 |
| 15°   | 1809.6 | 1663.2 | 1443.6 | 1356.8 | 1347.8 | 1371.2 | 1410.4 | 1454.2 | 1489.6 | 1510.8 | 1513.0 |
| 17.5° | 1832.2 | 1639.1 | 1379.5 | 1304.8 | 1316.1 | 1359.1 | 1413.4 | 1470.0 | 1513.0 | 1539.4 | 1544.0 |
| 20°   | 1857.9 | 1608.1 | 1313.1 | 1254.9 | 1287.4 | 1345.5 | 1407.4 | 1468.5 | 1513.0 | 1538.7 | 1544.7 |
| 22.5° | 1878.3 | 1564.3 | 1249.7 | 1214.2 | 1261.7 | 1328.9 | 1387.0 | 1436.1 | 1472.3 | 1485.9 | 1494.9 |
| 25°   | 1886.6 | 1509.3 | 1190.1 | 1181.0 | 1241.4 | 1301.7 | 1341.0 | 1368.9 | 1380.2 | 1378.7 | 1382.5 |
| 27.5° | 1882.0 | 1445.9 | 1138.7 | 1154.6 | 1215.7 | 1259.5 | 1279.1 | 1276.8 | 1256.5 | 1237.6 | 1246.6 |
| 30°   | 1863.2 | 1370.4 | 1095.7 | 1127.4 | 1182.5 | 1206.7 | 1203.6 | 1174.2 | 1135.7 | 1100.2 | 1102.5 |
| 32.5° | 1829.2 | 1288.9 | 1055.7 | 1096.5 | 1135.7 | 1146.3 | 1125.9 | 1087.4 | 1032.3 | 986.3  | 979.5  |
| 35°   | 1800.5 | 1211.2 | 1020.3 | 1061.0 | 1088.9 | 1083.6 | 1064.0 | 1014.2 | 964.4  | 923.7  | 916.9  |
| 37.5° | 1796.0 | 1144.8 | 986.3  | 1021.0 | 1036.9 | 1029.3 | 1005.2 | 962.9  | 944.8  | 913.9  | 910.1  |
| 40°   | 1820.2 | 1098.0 | 951.6  | 978.8  | 986.3  | 980.3  | 953.9  | 929.7  | 946.3  | 938.8  | 938.8  |
| 42.5° | 1885.8 | 1073.1 | 920.6  | 936.5  | 942.5  | 947.1  | 928.2  | 907.8  | 928.2  | 893.5  | 882.2  |
| 45°   | 1990.0 | 1073.8 | 892.7  | 895.0  | 913.1  | 928.9  | 916.1  | 885.9  | 875.4  | 805.9  | 792.4  |
| 47.5° | 2143.1 | 1099.5 | 870.1  | 855.7  | 888.2  | 914.6  | 896.5  | 852.7  | 805.9  | 759.9  | 751.6  |
| 50°   | 2322.0 | 1145.5 | 849.7  | 815.0  | 855.0  | 896.5  | 882.9  | 831.6  | 783.3  | 755.4  | 750.1  |
| 52.5° | 2520.5 | 1203.6 | 824.8  | 769.7  | 814.2  | 888.2  | 885.9  | 828.6  | 762.2  | 743.3  | 738.8  |
| 55°   | 2765.7 | 1261.0 | 793.9  | 716.9  | 778.0  | 881.4  | 877.6  | 803.7  | 757.6  | 744.1  | 742.6  |
| 57.5° | 3051.0 | 1344.0 | 749.3  | 663.3  | 736.5  | 853.5  | 845.2  | 788.6  | 742.6  | 732.7  | 732.0  |
| 60°   | 3510.5 | 1473.0 | 686.0  | 614.3  | 694.3  | 804.4  | 815.0  | 762.9  | 718.4  | 716.1  | 715.4  |
| 62.5° | 4115.0 | 1654.1 | 620.3  | 563.7  | 645.2  | 741.0  | 771.2  | 728.2  | 692.7  | 704.1  | 705.6  |
| 65°   | 4949.6 | 1806.6 | 552.4  | 520.7  | 590.9  | 679.9  | 729.7  | 695.8  | 664.1  | 686.0  | 686.0  |
| 67.5° | 5493.7 | 1809.6 | 490.5  | 476.2  | 535.8  | 628.6  | 686.0  | 657.3  | 627.1  | 664.1  | 665.6  |
| 70°   | 5380.5 | 1585.5 | 439.2  | 429.4  | 482.2  | 573.5  | 637.7  | 615.0  | 580.3  | 613.5  | 601.4  |
| 71°   | 5197.9 | 1461.0 | 418.8  | 411.3  | 461.1  | 547.1  | 615.0  | 596.2  | 561.4  | 583.3  | 576.5  |
| 72.5° | 4906.6 | 1268.5 | 385.6  | 387.1  | 429.4  | 513.9  | 583.3  | 563.7  | 529.0  | 541.1  | 538.8  |
| 75°   | 4147.4 | 1107.8 | 329.8  | 336.6  | 369.0  | 457.3  | 519.9  | 504.8  | 469.4  | 469.4  | 467.1  |
| 77.5° | 2592.9 | 774.2  | 273.9  | 277.7  | 313.2  | 391.7  | 446.7  | 433.9  | 400.0  | 388.6  | 385.6  |
| 80°   | 967.4  | 400.0  | 214.3  | 218.8  | 240.7  | 308.6  | 369.8  | 357.7  | 323.0  | 310.2  | 298.1  |
| 82.5° | 366.0  | 200.7  | 157.7  | 153.9  | 177.3  | 235.4  | 289.8  | 275.4  | 248.3  | 217.3  | 208.3  |
| 85°   | 138.1  | 99.6   | 96.6   | 93.6   | 104.1  | 139.6  | 179.6  | 176.6  | 147.9  | 126.0  | 123.8  |
| 87.5° | 36.2   | 32.4   | 37.7   | 27.9   | 29.4   | 26.4   | 27.2   | 11.3   | 5.3    | 2.3    | 1.5    |
| 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)