

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: P454040

Luminaire Tested: **GLAN-SA5A-760-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454040  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-760-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22711 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

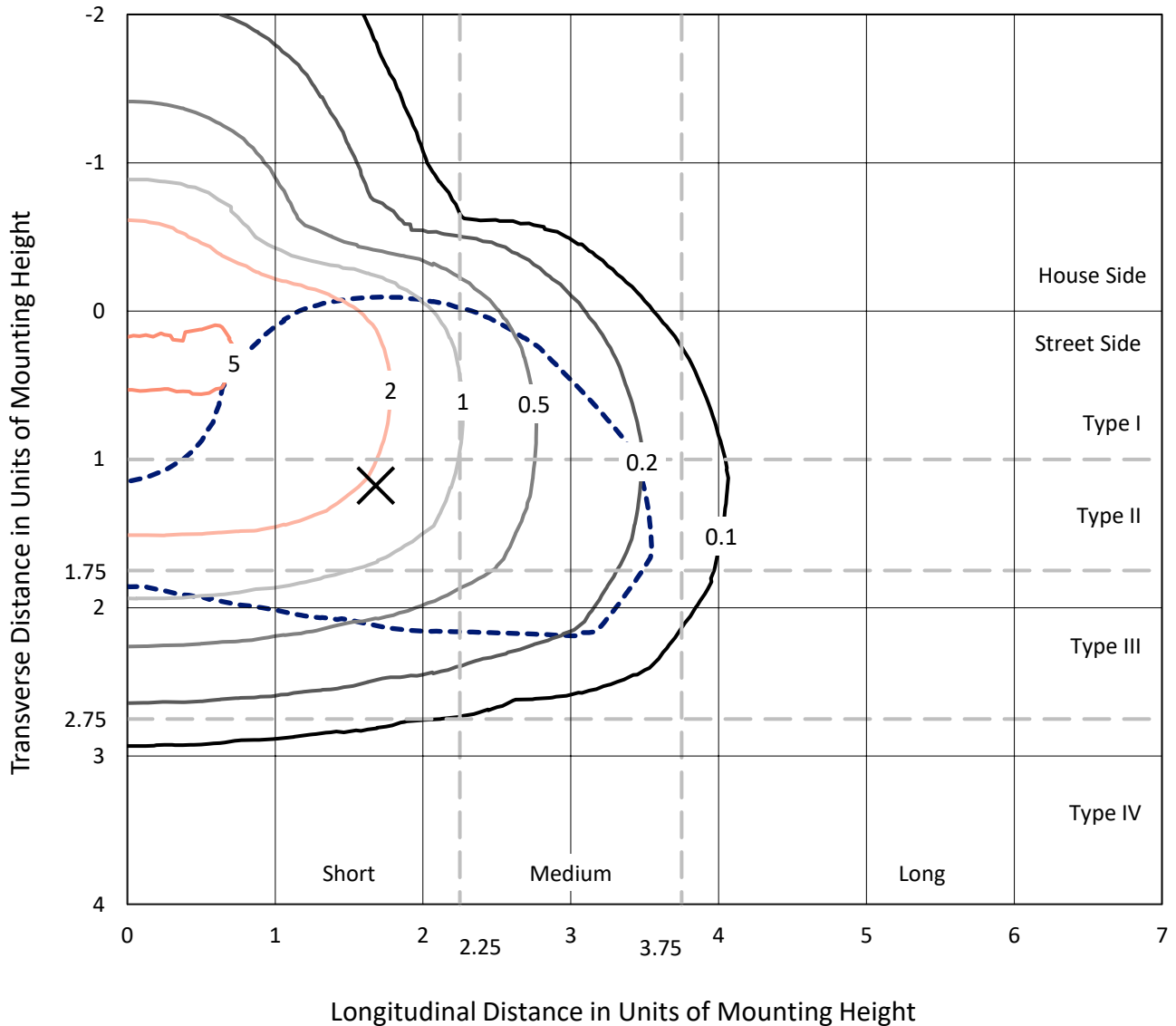
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

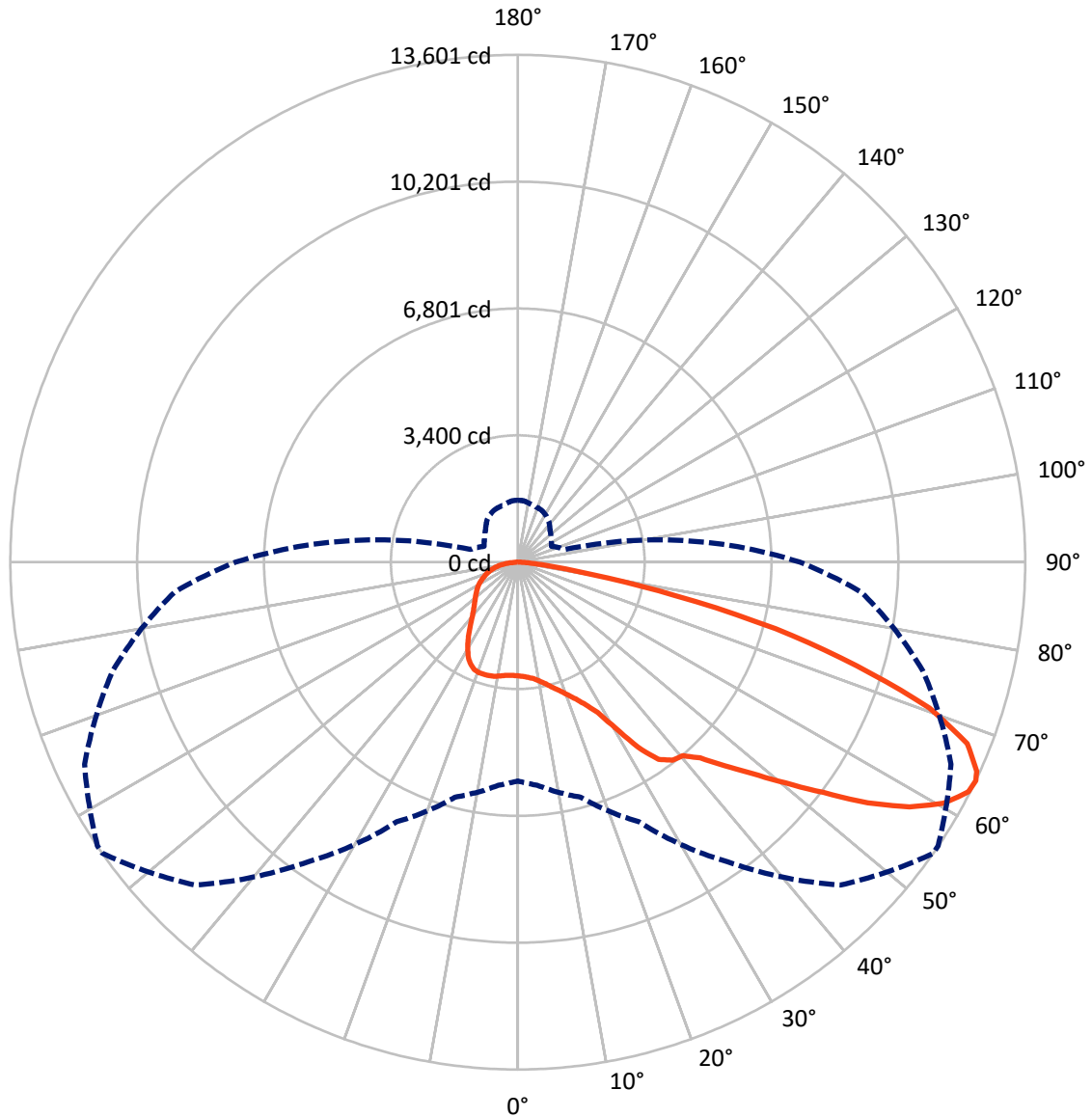
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5516.9   | 0.0    | 5516.9  |
|                    | % Fixture | 24.3     | 0.0    | 24.3    |
| <b>Street Side</b> | Lumens    | 17194.1  | 0.0    | 17194.1 |
|                    | % Fixture | 75.7     | 0.0    | 75.7    |
| <b>Total</b>       | Lumens    | 22711.0  | 0.0    | 22711.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 296.4   | 1.3       |
| 10°-20°   | 935.2   | 4.1       |
| 20°-30°   | 1665.0  | 7.3       |
| 30°-40°   | 2561.8  | 11.3      |
| 40°-50°   | 3631.5  | 16.0      |
| 50°-60°   | 5256.5  | 23.1      |
| 60°-70°   | 5439.9  | 24.0      |
| 70°-80°   | 2547.5  | 11.2      |
| 80°-90°   | 377.1   | 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°    | 22711.0 | 100.0     |
| 0°-180°   | 22711.0 | 100.0     |

**Coefficient of Utilization**



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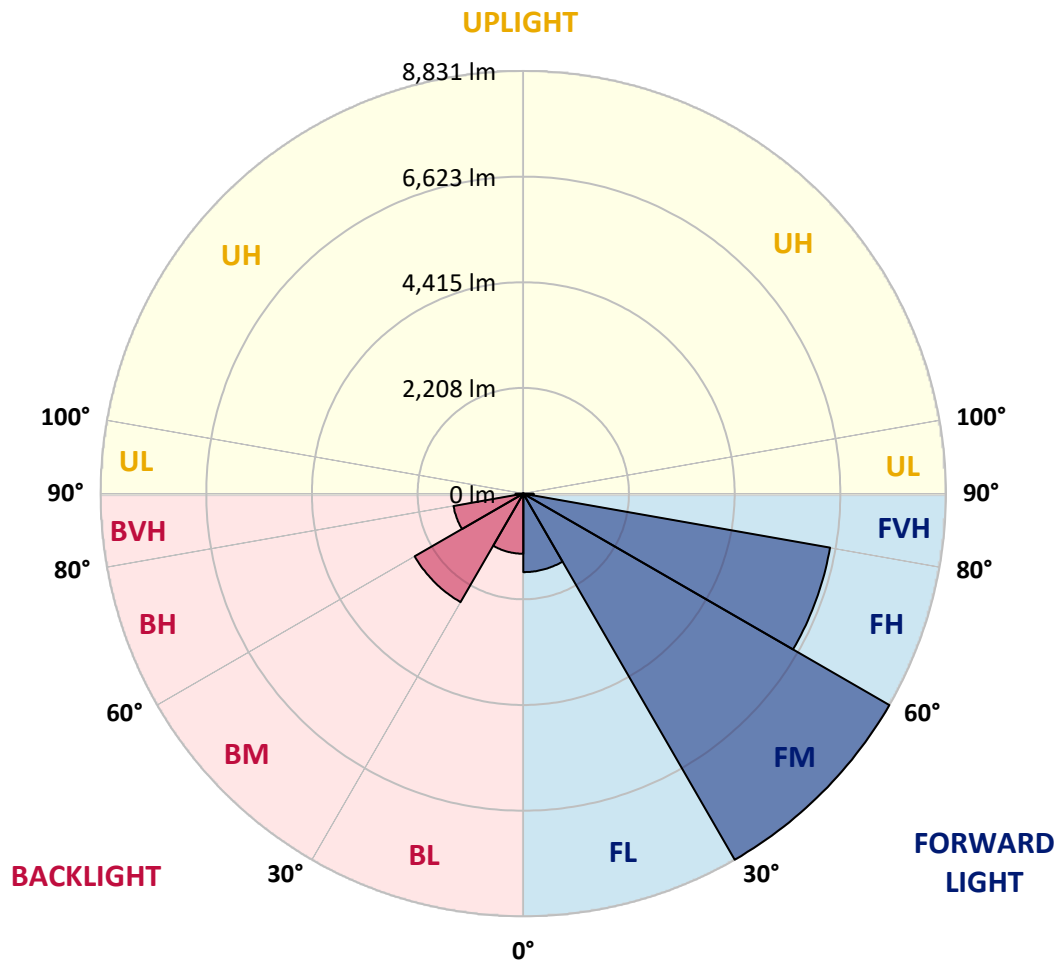
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1640.1 | 7.2       |                         |      |         |
| FM   | (30°-60°)   | 8830.7 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 6507.4 | 28.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 215.9  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1256.5 | 5.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2619.1 | 11.5      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1480.1 | 6.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 161.2  | 0.7       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 3047.1 | 3047.1 | 3047.1 | 3047.1 | 3047.1  | 3047.1  | 3047.1  | 3047.1  | 3047.1  | 3047.1  | 3047.1 |
| 2.5°  | 3081.3 | 3080.0 | 3083.8 | 3080.0 | 3082.6  | 3073.7  | 3069.9  | 3072.4  | 3068.7  | 3062.3  | 3050.9 |
| 5°    | 3119.3 | 3118.0 | 3119.3 | 3114.2 | 3116.8  | 3111.7  | 3102.8  | 3105.4  | 3099.0  | 3085.1  | 3068.7 |
| 7.5°  | 3183.9 | 3178.8 | 3178.8 | 3177.5 | 3172.5  | 3164.9  | 3158.5  | 3156.0  | 3149.7  | 3131.9  | 3106.6 |
| 10°   | 3267.4 | 3267.4 | 3268.7 | 3258.5 | 3264.9  | 3250.9  | 3244.6  | 3243.4  | 3221.8  | 3199.0  | 3163.6 |
| 12.5° | 3377.5 | 3383.9 | 3380.1 | 3375.0 | 3372.5  | 3367.4  | 3345.9  | 3351.0  | 3326.9  | 3287.7  | 3244.6 |
| 15°   | 3514.3 | 3524.4 | 3518.1 | 3515.5 | 3509.2  | 3490.2  | 3481.3  | 3477.6  | 3445.9  | 3388.9  | 3332.0 |
| 17.5° | 3695.3 | 3682.6 | 3677.6 | 3671.2 | 3644.7  | 3630.7  | 3615.5  | 3613.0  | 3585.2  | 3518.1  | 3429.4 |
| 20°   | 3853.5 | 3871.3 | 3861.1 | 3854.8 | 3828.2  | 3801.6  | 3790.2  | 3786.4  | 3762.4  | 3689.0  | 3547.2 |
| 22.5° | 4042.2 | 4046.0 | 4049.8 | 4034.6 | 4021.9  | 4001.7  | 3981.4  | 3975.1  | 3966.2  | 3890.3  | 3716.8 |
| 25°   | 4243.4 | 4258.6 | 4246.0 | 4230.8 | 4215.6  | 4214.3  | 4233.3  | 4230.8  | 4227.0  | 4153.6  | 3942.2 |
| 27.5° | 4571.3 | 4585.3 | 4589.1 | 4572.6 | 4514.4  | 4519.4  | 4562.5  | 4576.4  | 4634.6  | 4513.1  | 4232.1 |
| 30°   | 4756.2 | 4770.1 | 4801.7 | 4863.8 | 4956.2  | 5037.2  | 5141.0  | 5172.7  | 5228.4  | 4999.2  | 4576.4 |
| 32.5° | 4870.1 | 4875.2 | 4932.1 | 5047.3 | 5324.6  | 5627.1  | 5909.4  | 5920.8  | 5956.3  | 5634.7  | 4891.6 |
| 35°   | 5049.9 | 5053.7 | 5099.2 | 5225.8 | 5551.2  | 6055.0  | 6491.8  | 6505.7  | 6476.6  | 5832.2  | 5038.5 |
| 37.5° | 5271.4 | 5281.5 | 5310.6 | 5415.7 | 5804.4  | 6413.3  | 6733.6  | 6723.4  | 6465.2  | 5989.2  | 5298.0 |
| 40°   | 5594.2 | 5594.2 | 5560.0 | 5701.8 | 6071.5  | 6618.4  | 6818.4  | 6800.7  | 6732.3  | 6443.7  | 5693.0 |
| 42.5° | 5879.1 | 5874.0 | 5955.0 | 6051.2 | 6405.7  | 6934.8  | 7174.1  | 7203.2  | 7315.9  | 7014.6  | 6142.4 |
| 45°   | 6250.0 | 6272.8 | 6318.3 | 6493.0 | 6974.1  | 7475.4  | 7784.3  | 7812.1  | 7971.7  | 7686.8  | 6667.7 |
| 47.5° | 6624.7 | 6632.3 | 6775.3 | 7008.3 | 7678.0  | 8208.4  | 8461.6  | 8507.2  | 8652.7  | 8473.0  | 7233.6 |
| 50°   | 6890.5 | 6962.7 | 7191.8 | 7559.0 | 8403.3  | 9102.1  | 9299.6  | 9354.1  | 9611.1  | 9328.8  | 7893.2 |
| 52.5° | 7171.6 | 7242.5 | 7522.2 | 8081.8 | 9236.3  | 10016.2 | 10259.2 | 10295.9 | 10563.0 | 10194.7 | 8567.9 |
| 55°   | 7412.1 | 7477.9 | 7795.7 | 8545.1 | 9899.7  | 10949.2 | 11389.7 | 11346.7 | 11474.5 | 10861.8 | 9088.2 |
| 57.5° | 7451.4 | 7504.5 | 7904.6 | 8841.4 | 10398.5 | 11749.2 | 12380.9 | 12406.3 | 12258.1 | 11360.6 | 9517.4 |
| 60°   | 7147.5 | 7256.4 | 7715.9 | 8809.7 | 10622.5 | 12306.3 | 13120.3 | 13138.0 | 12717.7 | 11616.3 | 9688.3 |
| 62.5° | 6609.5 | 6598.1 | 7153.9 | 8300.8 | 10308.6 | 12432.9 | 13555.7 | 13536.8 | 12897.5 | 11493.5 | 9522.4 |
| 64°   | 5866.4 | 6003.1 | 6522.2 | 7675.4 | 9802.2  | 12237.9 | 13601.3 | 13591.2 | 12811.4 | 11237.8 | 9240.1 |
| 65°   | 5413.2 | 5405.6 | 5918.3 | 7164.0 | 9298.4  | 11944.2 | 13520.3 | 13506.4 | 12631.6 | 11008.7 | 9021.1 |
| 67.5° | 3908.0 | 3925.7 | 4432.1 | 5528.4 | 7559.0  | 10796.0 | 12992.4 | 12940.5 | 11922.7 | 10249.1 | 8188.1 |
| 70°   | 2367.3 | 2377.4 | 2775.0 | 3667.4 | 5425.8  | 8727.4  | 11711.3 | 11713.8 | 10837.8 | 9114.8  | 6969.0 |
| 72.5° | 1247.0 | 1273.5 | 1433.1 | 2082.5 | 3295.3  | 6123.4  | 9500.9  | 9726.3  | 9304.7  | 7779.2  | 5505.6 |
| 75°   | 693.7  | 697.5  | 810.2  | 1026.7 | 1681.2  | 3426.9  | 7141.2  | 7205.8  | 7366.5  | 6261.4  | 4071.3 |
| 77.5° | 529.2  | 536.8  | 572.2  | 663.4  | 915.3   | 1588.8  | 4321.9  | 4646.0  | 5191.6  | 4414.4  | 2323.0 |
| 80°   | 429.2  | 436.8  | 467.1  | 521.6  | 608.9   | 753.2   | 2007.8  | 2182.5  | 2778.8  | 1959.7  | 906.4  |
| 82.5° | 334.2  | 329.1  | 368.4  | 403.8  | 443.1   | 445.6   | 824.1   | 911.5   | 1131.8  | 843.1   | 392.4  |
| 85°   | 248.1  | 248.1  | 279.8  | 272.2  | 286.1   | 260.8   | 363.3   | 401.3   | 453.2   | 358.3   | 182.3  |
| 87.5° | 98.7   | 108.9  | 183.6  | 164.6  | 127.9   | 102.5   | 134.2   | 141.8   | 157.0   | 140.5   | 76.0   |
| 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°    | 3047.1 | 3047.1 | 3047.1 | 3047.1 | 3047.1 | 3047.1 | 3047.1 | 3047.1 | 3047.1 | 3047.1 | 3047.1 |
| 2.5°  | 3052.2 | 3056.0 | 3047.1 | 3040.8 | 3038.3 | 3034.5 | 3030.7 | 3031.9 | 3037.0 | 3042.1 | 3040.8 |
| 5°    | 3067.4 | 3068.7 | 3053.5 | 3045.9 | 3040.8 | 3035.7 | 3035.7 | 3039.5 | 3049.7 | 3057.3 | 3057.3 |
| 7.5°  | 3105.4 | 3105.4 | 3083.8 | 3069.9 | 3062.3 | 3053.5 | 3050.9 | 3052.2 | 3059.8 | 3069.9 | 3071.2 |
| 10°   | 3164.9 | 3159.8 | 3131.9 | 3110.4 | 3096.5 | 3075.0 | 3056.0 | 3045.9 | 3049.7 | 3056.0 | 3056.0 |
| 12.5° | 3237.0 | 3223.1 | 3187.7 | 3158.5 | 3124.4 | 3083.8 | 3044.6 | 3024.3 | 3023.1 | 3029.4 | 3026.9 |
| 15°   | 3314.2 | 3299.1 | 3249.7 | 3196.5 | 3137.0 | 3077.5 | 3030.7 | 3001.6 | 2978.8 | 2972.4 | 2986.4 |
| 17.5° | 3404.1 | 3372.5 | 3304.1 | 3230.7 | 3142.1 | 3064.9 | 2991.4 | 2931.9 | 2891.4 | 2880.0 | 2883.8 |
| 20°   | 3513.0 | 3471.2 | 3378.8 | 3263.6 | 3138.3 | 3019.3 | 2905.3 | 2825.6 | 2759.8 | 2739.5 | 2742.0 |
| 22.5° | 3663.6 | 3591.5 | 3456.0 | 3280.1 | 3106.6 | 2933.2 | 2775.0 | 2671.1 | 2591.4 | 2559.7 | 2578.7 |
| 25°   | 3834.5 | 3756.1 | 3529.5 | 3276.3 | 3024.3 | 2795.2 | 2620.5 | 2485.1 | 2412.9 | 2366.1 | 2376.2 |
| 27.5° | 4070.0 | 3930.8 | 3607.9 | 3242.1 | 2906.6 | 2626.8 | 2424.3 | 2296.4 | 2230.6 | 2206.5 | 2217.9 |
| 30°   | 4371.3 | 4157.4 | 3692.8 | 3149.7 | 2720.5 | 2414.2 | 2226.8 | 2143.2 | 2104.0 | 2073.6 | 2083.7 |
| 32.5° | 4589.1 | 4316.9 | 3711.8 | 2994.0 | 2519.2 | 2220.5 | 2092.6 | 2030.6 | 1987.5 | 1958.4 | 1964.7 |
| 35°   | 4744.8 | 4452.3 | 3702.9 | 2802.8 | 2309.1 | 2061.0 | 1986.3 | 1935.6 | 1866.0 | 1802.7 | 1791.3 |
| 37.5° | 4953.6 | 4622.0 | 3638.3 | 2593.9 | 2101.5 | 1953.4 | 1900.2 | 1806.5 | 1706.5 | 1621.7 | 1617.9 |
| 40°   | 5273.9 | 4820.7 | 3500.3 | 2348.3 | 1924.2 | 1873.6 | 1809.0 | 1687.5 | 1579.9 | 1511.5 | 1506.5 |
| 42.5° | 5604.3 | 5004.3 | 3313.0 | 2090.1 | 1778.7 | 1790.0 | 1711.6 | 1591.3 | 1525.5 | 1481.2 | 1476.1 |
| 45°   | 6008.2 | 5203.0 | 3110.4 | 1866.0 | 1671.0 | 1711.6 | 1626.7 | 1557.1 | 1517.9 | 1488.8 | 1481.2 |
| 47.5° | 6444.9 | 5406.9 | 2882.6 | 1664.7 | 1579.9 | 1639.4 | 1591.3 | 1559.6 | 1538.1 | 1517.9 | 1509.0 |
| 50°   | 6915.9 | 5634.7 | 2668.6 | 1502.7 | 1497.6 | 1564.7 | 1587.5 | 1576.1 | 1563.4 | 1557.1 | 1549.5 |
| 52.5° | 7432.4 | 5867.7 | 2488.8 | 1388.7 | 1425.5 | 1511.5 | 1588.8 | 1597.6 | 1597.6 | 1593.8 | 1588.8 |
| 55°   | 7781.8 | 6029.7 | 2306.6 | 1296.3 | 1352.0 | 1468.5 | 1586.2 | 1620.4 | 1633.1 | 1628.0 | 1622.9 |
| 57.5° | 8040.0 | 6118.3 | 2077.4 | 1216.6 | 1290.0 | 1426.7 | 1572.3 | 1622.9 | 1635.6 | 1641.9 | 1639.4 |
| 60°   | 8093.2 | 6036.0 | 1777.4 | 1133.0 | 1222.9 | 1366.0 | 1521.7 | 1585.0 | 1601.4 | 1640.7 | 1644.5 |
| 62.5° | 7853.9 | 5782.8 | 1478.6 | 1050.7 | 1140.6 | 1273.5 | 1453.3 | 1541.9 | 1574.8 | 1635.6 | 1641.9 |
| 64°   | 7560.2 | 5499.3 | 1312.8 | 998.8  | 1087.4 | 1221.6 | 1419.1 | 1530.5 | 1573.6 | 1654.6 | 1659.7 |
| 65°   | 7345.0 | 5292.9 | 1209.0 | 965.9  | 1053.3 | 1187.5 | 1400.1 | 1534.3 | 1585.0 | 1683.7 | 1691.3 |
| 67.5° | 6552.5 | 4582.7 | 1000.1 | 888.7  | 972.2  | 1129.2 | 1403.9 | 1566.0 | 1582.4 | 1695.1 | 1693.8 |
| 70°   | 5422.0 | 3648.5 | 838.1  | 817.8  | 893.8  | 1082.4 | 1388.7 | 1515.3 | 1516.6 | 1591.3 | 1573.6 |
| 72.5° | 4059.9 | 2696.5 | 726.7  | 744.4  | 806.4  | 971.0  | 1311.5 | 1447.0 | 1425.5 | 1435.6 | 1417.9 |
| 75°   | 2788.9 | 1783.7 | 625.4  | 665.9  | 715.3  | 858.3  | 1202.6 | 1314.1 | 1279.9 | 1267.2 | 1254.6 |
| 77.5° | 1488.8 | 986.2  | 520.3  | 588.7  | 621.6  | 741.8  | 1049.5 | 1157.1 | 1121.6 | 1072.3 | 1055.8 |
| 80°   | 602.6  | 464.6  | 419.0  | 487.4  | 506.4  | 597.5  | 873.5  | 940.6  | 914.0  | 827.9  | 800.1  |
| 82.5° | 302.6  | 278.5  | 329.1  | 383.6  | 384.8  | 426.6  | 649.4  | 712.7  | 653.2  | 548.2  | 524.1  |
| 85°   | 158.2  | 163.3  | 226.6  | 269.6  | 238.0  | 230.4  | 389.9  | 431.7  | 396.2  | 344.3  | 310.2  |
| 87.5° | 57.0   | 65.8   | 119.0  | 117.7  | 83.6   | 44.3   | 86.1   | 41.8   | 22.8   | 13.9   | 17.7   |
| 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)